

Project OQ Covered Task List

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PROJECT MANAGER			
PROJECT NAME			
LOCATION			
MOC #			
DATE			
Task Number	Task Name	Task Description	Who Performs? Motiva / Contractor / Both
1.1	Measurement of Structure-to-Soil Potentials	Taking a structure-to-soil reading with a half cell	
1.2	Conduct Close Interval Survey	Use of equipment to obtain and record structure-to-soil readings at specific intervals along the pipeline	
1.3	Test to Detect Interference	Testing a cathodically protected structure for interference from other sources	
1.4	Inspect and Perform Electrical Test of Bonds	Visual and electrical inspection of connections related to the electrical connection (bond) of two or more structures. Inspection to include testing for electrical continuity and the direction and magnitude of flow.	
1.5	Inspect and Test Electrical Isolation	Inspection and testing of electrical isolation to assure the isolation is adequate	
2.1	Verify Test Lead Continuity	Visual inspection of test leads and the testing for electrical continuity between structure and test station	
2.2	Repair Damaged Test Leads	Repair or replacement of test leads	
2.3	Install test leads by Non-Exothermic Welding Methods	Install test leads on a structure by mechanical means (magnetic coupling, conductive epoxy, clamp, or split bolt connectors).	
2.4	Install test leads by Exothermic Welding Methods	Install test leads on a structure by thermit welding (cadweld & pin brazing)	
3	Obtain a Voltage and Current Output Reading from a Rectifier to Verify Proper Performance	Physical measurement and documentation of electrical output of a rectifier to verify within limits	
4.1	Troubleshoot Rectifier	Electrical testing of rectifier connections and equipment to identify faulty components	
4.2	Replace or Repair Defective Rectifier Components	Repair or replacement of rectifier components	
4.3	Adjustment of Rectifier	Adjustment of rectifier settings to obtain proper output voltage and current	
5.1	Examine for Mechanical Damage on Buried or Submerged Pipe	Visual inspection/examination for physical damage of the pipeline when exposed	
5.2	Examine for External Corrosion on Buried or Submerged Pipe	Visual inspection/examination for metal loss or corrosion of the pipeline when exposed	
5.3	Inspect the Condition of External Coating on Buried or Submerged Pipe	Visual inspection/examination for coating damage of the pipeline when exposed	
7.1	Visual inspection of Atmospheric Coatings	Visual inspection of coating on above-ground normally exposed pipeline components	
7.2	Prepare Surface for Coating Using Hand and Power Tools	Preparation of the pipeline surfaces by hand methods to allow for proper coating application & bonding (hand wash, wire brush, scrapers, hand power tools).	
7.3	Prepare Surface for Coating by Abrasive Water Blasting	Preparation of the pipeline surfaces by abrasive water blast methods to allow for proper coating application & bonding	
7.4	Prepare Surface for Coating by Abrasive Blasting Methods Other Than Water	Preparation of the pipeline surfaces by abrasive blasting methods to allow for proper coating application & bonding (glass bead, walnut shell, crushed slag, etc).	
7.5	Apply Coating Using Hand Application Methods	Application of coating by hand methods to pipeline surfaces (wrap, brush, aerosol, etc.)	
7.6	Apply Coating Using Spray Applications	Application of coating by spray methods to pipeline surfaces (High Volume Low Pressure, Airless Spray),	
7.7	Perform Coating Inspection	Inspection of prepared surface for coating application as well as coating after application.	
8.1	Measure Pit Depth with Pit Gauge	Measuring wall loss with a mechanical pit gauge, dial gauge, or equivalent instrument	If needed
8.2	Measure Wall Thickness with Ultrasonic Meter	Measure wall thickness with Ultrasonic Meter (Non-NDE)	If needed

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8.3	Measure Corroded Area	Use of pit gauge, ultrasonic meter, or other tools to measure corroded area	If needed
9.1	Install Bonds	Connect two or more structures electrically by bond wires/cables to mitigate cathodic protection interference.	
9.2	Install Galvanic Anodes	Install galvanic anodes for cathodic protection	
9.3	Install Rectifiers	Installation of rectifiers for cathodic protection	
9.4	Install Impressed Current Ground Beds	Installation of anode ground bed for cathodic protection	
9.5	Repair Shorted Casings	Repair shorted casing by replacement, repair, or other methods (end seals, spacers, wax injection, etc)	
9.6	Install Electrical Insulating Devices	Installation of electrical insulation devices (Flange insulation kits, Dielectric Union, etc)	
10.1	Insert and Remove Coupons	Insert and Remove Corrosion Coupons	
10.2	Monitor Probes (on-line)	Accessing monitor probe, inspecting, and taking reading with a data logger	
11	Monitoring and Controlling the Injection Rate of the Corrosion Inhibitor	Monitoring inhibitor injection rates and adjusting rates to assure proper amount of inhibitor is being injected	
12	Perform Visual Inspection Internal Pipe Surface	Inspecting internal pipe surface for evidence of corrosion	
14.1	Locate Line	Locating the pipeline	Motiva
14.2	Install, Inspect, and Maintain Permanent Marker	Installing, inspecting, and maintaining permanent pipeline markers	Motiva
14.5	Install, Inspect, and Maintain Temporary Marker	Installing, inspecting, and maintaining temporary markers (pin flags, stakes, etc)	Motiva
15.1	Perform Visual Inspect Surface Condition of Right-of-Row	Perform ROW Inspections (aerial, vehicle, or foot)	
16.1	Inspect Navigable Waterway Crossing	Inspection of Underwater Navigable Waterway Crossing	
19.1	Perform Valve Body Winterization or Corrosion Inhibition	Winterization of valve body to protect against freezing and/or internal corrosion	
19.2	Perform Valve Lubrication	Lubricate the components of a valve	
19.3	Perform Valve Seat Sealing	Injection of seat sealing products into a valve to control leak-by and leak-through	
19.4	Perform Valve Stem Packing Maintenance	Injection of packing into stem seal gland	
19.5	Adjust Actuator/Operator, Electric	Electrical Actuator: Setting / adjustment of actuator limit and torque switches, verification of proper actuator function and valve travel.	
19.6	Adjust Actuator/Operator, Pneumatic	Pneumatic Actuator: Setting / adjustment of actuator adjustment mechanisms and components, verification of proper actuator function and valve travel.	
19.7	Adjust Actuator/Operator, Hydraulic	Hydraulic Actuator: Setting / adjustment of actuator adjustment mechanisms and components, verification of proper actuator function and valve travel.	
20	Inspect Mainline Valves	Inspecting and function testing of valve to ensure it is in good working order	
21.1	Repair Valve Actuator/ Operator, Pneumatic	Pneumatic Actuator: Disassembly, diagnosis of component failure (troubleshoot), repair or replacement, and reassembly of actuator	
21.2	Disassembly/Re-assembly of Valve	Disassembly and re-assembly of valves, diagnosis of valve component failure (troubleshoot), and repair or replacement of parts to maintain integrity of the valve	
21.3	Perform Internal Inspection of Valve and Components	Internal inspection of a valve body cavity and valve components (body bleed, drain plug, vent plug, seat, O-rings, etc.)	
21.4	Repair Valve Actuator/ Operator, Hydraulic	Hydraulic Actuator: Disassembly, diagnosis of component failure (troubleshoot), repair or replacement, and reassembly of actuator	
21.5	Repair Valve Actuator/ Operator, Electric	Electrical Actuator: Disassembly, diagnosis of component failure (troubleshoot), repair or replacement, and reassembly of actuator	
22.1	Inspect Tank Pressure/Vacuum Breakers	Inspection of tank pressure/vacuum breaker to verify that it is functioning properly, is in good mechanical condition, and adequate for it's intended service	
22.2	Inspect, Test, and Calibrate HVL Tank Pressure Relief Valves	Inspection, testing, and calibration activities performed on breakout tank pressure relief valves	
23.1	Maintain/Repair Relief Valves	Disassembly and re-assembly of relief valves, diagnosis a relief valve component failure (troubleshoot), repair or replacement of parts (spring loaded, snap acting pilot, modulating pilot, etc)	

23.2	Inspect, Test, and Calibrate Relief Valves	Inspection, testing, and calibration of a pressure relief valve to verify the device is functioning properly and in good working condition. (spring loaded, snap acting, modulating pilot, nitrogen loaded, piston, etc)	
24.1	Maintain/Repair Pressure Limiting Devices	Repair and maintenance activities performed on a pressure limiting device and associated equipment to maintain or restore the design function. (Globe control valve, Cage control valve, Butterfly-style control valve, V-notch valves, etc)	
24.2	Inspect, Test, and Calibrate Pressure Limiting Devices	Inspecting, testing, and calibration of a pressure limiting device to verify it is functioning properly, in good condition, and is performing adequately for its intended purpose (Globe control valve, Cage control valve, Butterfly-style control valve, V-notch valves, etc)	
25.1	Inspect, Test and Calibrate Pressure Switches	Inspecting, testing, and calibration of pressure switches to ensure equipment and associated output signals are functioning properly	
25.2	Inspect, Test and Calibrate Pressure Transmitters	Inspecting, testing, and calibration of pressure transmitters to ensure equipment and associated output signals are functioning properly	
26	Verify or Set Protection Parameters for Programmable Controllers and/or Other Instrumentation Control	Verify data and logic is correct for the application of Programable Logic Controllers or Other Control Loops.	
27.1	Routine Inspection of Breakout Tanks (API 653 Monthly or DOT Annual)	Performing a routine tank inspection to evaluate condition of a breakout tank by visually inspecting the condition of the tank and its components. (Monthly Inspections)	
27.2	API 653 Inspection of In-Service Breakout Tanks	Performing internal or external inspection of an in-service breakout tank in accordance with latest DOT-approved addition of API 653. The inspection shall be performed by an authorized inspector as defined by API 653 (5year, 10year inspections)	
29.1	Launching In-Line Inspection Devices	Loading and launch a pig from a pig trap (ILI's, Maintenance pigs, Specialty pigs, etc)	
29.2	Receiving In-Line Inspection Devices	Receive and unload a pig from a pig trap (ILI's, Maintenance pigs, Specialty pigs, etc)	
30	Test Overfill Protective Devices	Function test of overfill protection devices to ensure the equipment and associated alarms are functioning properly. (Breakout tanks, sumps, etc)	
31	Inspect and Calibrate Overfill Protective Devices	Inspection, testing, and calibration of overfill protection device to ensure the equipment is functioning properly. (Breakout tanks, sumps, etc)	
32	Observation of Excavation Activities	Monitoring or excavation activities to prevent damage to buried pipelines.	
35	Measuring Clearance from Existing Pipe to Underground Structures Installed by Excavation, Boring, Directional Drilling	Determine clearance between existing underground structure (pipe) to the structure that is being installed to ensure there is proper clearance	
36.1	Safe Disconnect of Pipeline Facilities	Isolation and physical disconnect of a pipeline from service.	
36.2	Purging of Pipeline Facilities	Purging of product and vapors from a pipeline to be disconnected from service	
36.3	Sealing of a Disconnected Portion of Pipeline	Sealing of a disconnection section of pipe from service (blind flange, weld cap, etc)	
37	Install or Repair Support Structures on Existing Aboveground Components	Installation, repair, or adjustment of pipe supports, hangers, or insulators.	
38.1	Visually Inspect Pipe and Pipe Components Prior to Installation	Visual inspection of pipe and components for damage and to ensure they are rated for the intended service	
38.3	Visually Inspect that Welds Meet DOT Requirements)	Visual inspection of the weld to ensure is in accordance with API 1104 and applicable qualified welding procedure	
38.4	NDT – Radiographic Testing	X-Ray Testing of Welds (Radiographic testing (RT) Certification Required)	
38.5	NDT – Liquid Penetrate Testing	Liquid Penetrant Testing of Welds (Liquid Penetrant Testing (PT) Certification Required)	
38.6	NDT – Magnetic Particle Testing	Magnetic Particle Testing of Welds (Magnetic Particle Testing (MP) Certification Required)	
38.7	NDT – Ultrasonic Testing	Ultrasonic Testing of Welds (Ultrasonic Testing (UT) Certification Required)	

39	Perform Backfilling	Monitoring of the backfilling of soil or replacement material over a pipeline to ensure it is done in a manner that provides firm support under the pipe and prevents damage to the pipe or coating.	
40.1	Fit Full Encirclement Welded Split Sleeve (Oversleeve, Tight Fitting Sleeve, etc)	Installation of two halves of rolled steel around the circumference of the pipe. Will require welding (Type A & B Sleeves)	
40.3	Apply Composite Sleeve	Installation of a composite sleeve. Manufactures have a certification process to ensure they are installed in accordance with their specifications. (I.e. Clock Spring)	
40.4	Install Mechanical Bolt-On Split Repair Sleeve	Installation of sleeves or clamps that are equipped with seals and are bolted together around circumference of the pipe. (I.e. Plidco)	
40.5	Install Weldable Compression Couplings	Installation of a bolt-on device clamped to the surface of the pipe to mechanically connect two pipeline segments. Longitudinal bolts apply pressure to a steel ring and neoprene seal.	
40.6	Install and Remove Plugging Machine	Installation of a plugging machine onto the valve, operation to isolate a section of the pipeline, and removal from the valve. (I.e. Stoppeling)	
40.7	Installing a Tap 2" and Under on a Pipeline System	Installation of a tapping machine onto the valve, operation to tap, and removal from the valve. (Includes retrieval of coupon if applicable)	
40.8	Installing a Tap Larger than 2" on a Pipeline	Installation of a tapping machine onto the valve, operation to tap, and removal from the valve. (Will include retrieval of coupon)	
40.9	Installing and Remove Completion Plug on Pipelines Larger than 2"	Installation and removal of completion plug. (A tapping machine is used to install or remove)	
41	Conduct Pressure Test	Performance of activities required for pressure testing of pipelines and components.	
42.7	Perform Welding	Performance of gas or arc welding on pipeline or breakout storage tanks according to the operator's applicable welding procedures.	
43.1	Perform Start-up of a Liquid Pipeline (Control Center)	Pipeline Control Center Tasks	
43.2	Perform Shutdown of a Liquid Pipeline (Control Center)	Pipeline Control Center Tasks	
43.3	Monitor Pressures, Flows, Communications, and Line Integrity and Maintain them within Allowable Limits on a Liquid Pipeline System (Control Center)	Pipeline Control Center Tasks	
43.4	Operate Valves Remotely on a Liquid Pipeline System (Control Center)	Pipeline Control Center Tasks	
44.3	Inspect, Test, and Maintain Flow Computer for Hazardous Liquid Leak Detection	Inspecting, testing, and maintenance activities performed on a flow computer that is associated with a hazardous liquid leak detection system	
44.4	Inspect, Testing, and Corrective, and Preventive Maintenance of Tank Gauging for Hazardous Liquid Leak Detection	Inspecting, testing, and maintenance performed on tank gauging equipment that is associated with a hazardous liquid leak detection system, including calibration. (Sonar, Radar, Mechanical (tape with displacer).	
44.5	Prove Flow Meters for Hazardous Liquid Leak Detection	Proving of flow meters that are used for a hazardous liquid leak detection system to obtain an accurate meter factor and proving report	
44.6	Maintain Flow Meters for Hazardous Liquid Leak Detection	Inspection, maintenance, and repair activities performed on a flow meter that is part of a hazardous liquid leak detection system.	
44.7	Inspect, Test, and Maintain Gravimeters/Densimeters for Hazardous Liquid Leak Detection	Inspection, testing, maintenance, and calibration activities performed on gravimeters/densimeters used for hazardous liquid leak detection system.	
44.8	Inspect, Test, and Maintain Temperature Transmitters for Hazardous Liquid Leak Detection	Inspection, testing, maintenance, and calibration activities performed on a temperature transmitter associated with a hazardous liquid leak detection system,	
63.1	Start-up of Liquid Pipeline (Field)	Field start-up of a liquid regulated (195) pipeline (Tasks ends when PCC assumes full control of the operation)	
63.2	Shut-down of Liquid Pipeline (Field)	Field shut-down of a liquid regulated (195) pipeline (Task end when the PCC assumes full control of the operation or when the identified part of a pipeline reaches static or steady state)	
63.3	Monitor Pressure, Flows, Communications, and Line Integrity and Maintain them within Allowable Limits on a Liquid Pipeline System (Field)	Field activities for monitoring and maintaining pipeline conditions on a liquid regulated (195) pipeline (such as pressures, flow rates, tank levels, etc)	
63.4	Locally Operate Valves on a Liquid Pipeline System	Operating valves locally by manual or remote methods on a liquid regulated (195) pipeline.	

M1001	Joining of Pipe: Threaded Joints	Joining of all threaded pipe joints and fittings	
M1002	Joining of Pipe: Flange Assembly	Joining of flanged pipeline joints and components	
M1003	Tubing and Fitting Installation (Instrument, Control, & Sampling)	Installation of stainless steel tubing and fittings on a pipeline system	
M1004	Repair of Steel Pipe by Grinding	Repair of a pipeline defect by grinding method	if needed