CHECK ASSESSMENTS

Mobile-friendly versions of our skills assessments.

OQSG
A Smith System Company

CHECK02: Maintain Test Leads	**CHECK46:** Vault Maintenance	**CHECK19:** Provide Temporary Marking of Buried Pipeline Prior to Excavation
CHECK05: Electrically Inspect Bare Pipe	**CHECK50:** Testing an Emergency Shutdown Device	**CHECK63:** Inspect Tank Pressure Vacuum Breakers
CHECK09: Monitoring for Internal Corrosion	**CHECK55:** Isolation of a Gas Compressor Unit	**CHECK65:** Damage Prevention During Excavation Activities by or on Behalf of the Operator
CHECK17: Inspect Navigable Waterway Crossing	**CHECK56:** Compressor Station Inspection and Testing of Remote Control Shutdown Devices	**CHECK01.3ACVG:** Conduct AC Voltage Gradient Survey
CHECK18: Inspection of Breakout Tanks	**CHECK57:** Startup, Shutdown, and Operation of Turbine Driven Gas Compressor Unit	**CHECK01.3DCVG:** Conduct DC Voltage Gradient Survey
CHECK20: Inspection Following Excavation Activities and Leak Survey After Blasting	**CHECK58:** Startup, Shutdown, and Operation of an Engine Driven Gas Compressor Unit	**CHECK36.8:** Install Pipeline Plugs
CHECK21: Provide Security for Pipeline Facilities	**CHECK62:** Inspecting and Remediating Pipeline Hazard Protection	**CHECK1301:** Install and Maintain Pipeline Markers
CHECK28: Verify or Set Protection Parameters	**CHECK0451:** Manual Startup and Shutdown of Pumps	**CHECK0721:** Joining of Pipe: Threaded Joints
CHECK31: Measure Clearance from Existing Piping to Underground Structures Installed by Excavation, Boring, and Directional Drilling	**CHECK0271WD:** Prove Flow Meters for Hazardous Liquid Leak Detection: Water Draw	**CHECK47:** Install Electrical Insulating Device
CHECK32: Abandoning, Safe Disconnect, Purging, and Sealing of Pipeline Facilities	**CHECK0281C:** Maintain Flow Meters: Coriolis	**CHECK1291:** Locate Underground Pipelines
CHECK33: Installation, Replacement or Repair of Support Structures on Existing or New Aboveground Components	**CHECK0281M:** Maintain Flow Meters: Magmeter	**CHECK15:** Placing and Maintaining Line Markers
CHECK30: Inspect Existing Pipe Following Movement	**CHECK0281O:** Maintain Flow Meters: Orifice	**CHECK06.4:** Perform Coating Application
CHECK38: Maintenance Welding on Pipelines	**CHECK0281PD:** Maintain Flow Meters: Positive Displacement	**CHECK01.3ACCA:** Conduct AC Current Attenuation Survey
CHECK40: CPM (Computational Pipeline Monitoring) Leak Detection	**CHECK0281T:** Maintain Flow Meters: Turbine	**CHECK12:** Internal Corrosion Remediation
CHECK45: Perform Leakage Survey	**CHECK0281TM:** Maintain Flow Meters: Thermal Mass	**CHECK36.3:** Perform Over-Sleeve Repair Installation
CHECK43: Perform Flange Bolting Procedures	**CHECK0281U:** Maintain Flow Meters: Ultrasonic	**CHECK36.6:** Install Mechanical Coupling
CHECK44: Tubing and Tube Fitting Handling and Installation	**CHECK0281V:** Maintain Flow Meters: Vortex	**CHECK0031:** Inspect and Monitor Galvanic Ground Beds/Anodes
CHECK110: Grinding, Sanding, or Buffing on Steel Pipeline	**CHECK06J:** Electrical Inspection of Coatings (Jeeping)	**CHECK48.4:** Purging Pipeline with Product
CHECK0221: Inspect, Test and Maintain Temperature Transmitters	**CHECK16G:** Inspect Surface Conditions of Right-of-Way and Perform Leak Surveys (Gas Pipeline)	**CHECK48.2:** Purging Hydrocarbons from a Pipeline
CHECK0261: Inspection, Testing and Corrective and Preventative Maintenance of Tank Gauging	**CHECK29:** Moving In-Service Pipe	**CHECK48.3:** Purging Air from a Pipeline
CHECK41: Operate Pressure Relieving Devices for Launching and Receiving Facilities	**CHECK51:** Perform Incremental Pressure Increases to Uprate MAOP	**CHECK03.1:** Rectifier Voltage and Current Inspection
CHECK0281: Maintain Flow Meters	**CHECK52:** Operate Odorant Equipment	**CHECK48:** Purge a Pipeline
CHECK06.2: Inspection of Coatings	**CHECK54:** Gas Detection and Alarm System Maintenance and Performance Testing	**CHECK09.3:** Collecting a Sample of Pipeline Contents
CHECK0591: Leak Test at Operating Pressure	**CHECK61:** Documentation, Reporting, and OQ Record Keeping	**CHECK0291:** Inspect, Test and Maintain Gravitometers and Densitometers

Published: July 22, 2026

CHECK ASSESSMENTS

Mobile-friendly versions of our skills assessments.

OQSG
A Smith System Company

CHECK02: Maintain Test Leads	**CHECK46:** Vault Maintenance	**CHECK19:** Provide Temporary Marking of Buried Pipeline Prior to Excavation
CHECK05: Electrically Inspect Bare Pipe	**CHECK50:** Testing an Emergency Shutdown Device	**CHECK63:** Inspect Tank Pressure Vacuum Breakers
CHECK09: Monitoring for Internal Corrosion	**CHECK55:** Isolation of a Gas Compressor Unit	**CHECK65:** Damage Prevention During Excavation Activities by or on Behalf of the Operator
CHECK17: Inspect Navigable Waterway Crossing	**CHECK56:** Compressor Station Inspection and Testing of Remote Control Shutdown Devices	**CHECK01.3ACVG:** Conduct AC Voltage Gradient Survey
CHECK18: Inspection of Breakout Tanks	**CHECK57:** Startup, Shutdown, and Operation of Turbine Driven Gas Compressor Unit	**CHECK01.3DCVG:** Conduct DC Voltage Gradient Survey
CHECK20: Inspection Following Excavation Activities and Leak Survey After Blasting	**CHECK58:** Startup, Shutdown, and Operation of an Engine Driven Gas Compressor Unit	**CHECK36.8:** Install Pipeline Plugs
CHECK21: Provide Security for Pipeline Facilities	**CHECK62:** Inspecting and Remediating Pipeline Hazard Protection	**CHECK1301:** Install and Maintain Pipeline Markers
CHECK28: Verify or Set Protection Parameters	**CHECK0451:** Manual Startup and Shutdown of Pumps	**CHECK0721:** Joining of Pipe: Threaded Joints
CHECK31: Measure Clearance from Existing Piping to Underground Structures Installed by Excavation, Boring, and Directional Drilling	**CHECK0271WD:** Prove Flow Meters for Hazardous Liquid Leak Detection: Water Draw	**CHECK47:** Install Electrical Insulating Device
CHECK32: Abandoning, Safe Disconnect, Purging, and Sealing of Pipeline Facilities	**CHECK0281C:** Maintain Flow Meters: Coriolis	**CHECK1291:** Locate Underground Pipelines
CHECK33: Installation, Replacement or Repair of Support Structures on Existing or New Aboveground Components	**CHECK0281M:** Maintain Flow Meters: Magmeter	**CHECK15:** Placing and Maintaining Line Markers
CHECK30: Inspect Existing Pipe Following Movement	**CHECK0281O:** Maintain Flow Meters: Orifice	**CHECK06.4:** Perform Coating Application
CHECK38: Maintenance Welding on Pipelines	**CHECK0281PD:** Maintain Flow Meters: Positive Displacement	**CHECK01.3ACCA:** Conduct AC Current Attenuation Survey
CHECK40: CPM (Computational Pipeline Monitoring) Leak Detection	**CHECK0281T:** Maintain Flow Meters: Turbine	**CHECK12:** Internal Corrosion Remediation
CHECK45: Perform Leakage Survey	**CHECK0281TM:** Maintain Flow Meters: Thermal Mass	**CHECK36.3:** Perform Over-Sleeve Repair Installation
CHECK43: Perform Flange Bolting Procedures	**CHECK0281U:** Maintain Flow Meters: Ultrasonic	**CHECK36.6:** Install Mechanical Coupling
CHECK44: Tubing and Tube Fitting Handling and Installation	**CHECK0281V:** Maintain Flow Meters: Vortex	**CHECK0031:** Inspect and Monitor Galvanic Ground Beds/Anodes
CHECK110: Grinding, Sanding, or Buffing on Steel Pipeline	**CHECK06J:** Electrical Inspection of Coatings (Jeeping)	**CHECK48.4:** Purging Pipeline with Product
CHECK0221: Inspect, Test and Maintain Temperature Transmitters	**CHECK16G:** Inspect Surface Conditions of Right-of-Way and Perform Leak Surveys (Gas Pipeline)	**CHECK48.2:** Purging Hydrocarbons from a Pipeline
CHECK0261: Inspection, Testing and Corrective and Preventative Maintenance of Tank Gauging	**CHECK29:** Moving In-Service Pipe	**CHECK48.3:** Purging Air from a Pipeline
CHECK41: Operate Pressure Relieving Devices for Launching and Receiving Facilities	**CHECK51:** Perform Incremental Pressure Increases to Uprate MAOP	**CHECK03.1:** Rectifier Voltage and Current Inspection
CHECK0281: Maintain Flow Meters	**CHECK52:** Operate Odorant Equipment	**CHECK48:** Purge a Pipeline
CHECK06.2: Inspection of Coatings	**CHECK54:** Gas Detection and Alarm System Maintenance and Performance Testing	**CHECK09.3:** Collecting a Sample of Pipeline Contents
CHECK0591: Leak Test at Operating Pressure	**CHECK61:** Documentation, Reporting, and OQ Record Keeping	**CHECK0291:** Inspect, Test and Maintain Gravitometers and Densitometers

Published: July 22, 2026

CHECK ASSESSMENTS

Mobile-friendly versions of our skills assessments.

OQSG
A Smith System Company

CHECK01.3: Perform Close Interval Survey	**CHECK06.4.1:** Perform Coating Application Hand Application Methods	**CHECK32.2:** Safely Disconnect Pipeline Facilities
CHECK01.4: Perform Interference Testing	**CHECK06.4.2:** Perform Coating Application Spray Application Methods	**CHECK32.3:** Purge Pipeline Facilities
CHECK01.6: Inspect and Electrically Test Bonds	**CHECK06.4.3:** Perform Coating Application Wrapped Methods	**CHECK32.4:** Seal a Disconnected Portion of a Pipeline
CHECK02.2: Inspect & Verify Test Lead Continuity	**CHECK72:** Join Plastic Pipe: Electrofusion	**CHECK33.2:** Install Additional or Revised Support Structure Elements to Existing Aboveground Structures
CHECK02.3: Repair or Replace Damaged Test Lead	**CHECK15.2:** Locate a Pipeline	**CHECK41.2:** Sequence of Events Needed to Isolate, Relieve Pressure, and Drain Fluids from the Launcher Barrel
CHECK05.2: Soil Resistivity Measurement	**CHECK15.3:** Install a Line Marker	**CHECK41.3:** Procedure Involved with Launching a Pig
CHECK05.3: Soil-to-Soil Potential Survey	**CHECK15.4:** Inspect and Maintain Line Markers	**CHECK41.5:** Procedure Involved with Receiving a Pig
CHECK09.1: Extract or Insert Corrosion Coupons	**CHECK16G.1:** Inspect Surface Conditions of Right-of-Way	**CHECK41.6:** Sequence of Events Needed to Isolate, Relieve Pressure, and Drain Fluids from the Receiver Barrel
CHECK09.2: Remove and Insert Corrosion Probes	**CHECK16G.2:** Perform Gas Leakage Surveys	**CHECK43.1:** Identify Hazards and Perform Hot Bolting
CHECK71: Join Plastic Pipe: Sidewall Heat Fusion	**CHECK18.2:** Inspect Breakout Tanks in Accordance with API Standards 653	**CHECK43.2:** Perform Flange Assembly Procedures (Make-Up)
CHECK70: Join Plastic Pipe: Butt Heat Fusion	**CHECK18.3:** Inspection of Breakout Tanks in Accordance with API Standards 510	**CHECK43.3:** Perform Flange Disassembly Procedures (Break-Out)
CHECK06.2.1: Visual Inspection of Coatings	**CHECK18.4:** Inspect Other Breakout Tanks	**CHECK44.2:** Demonstrate the Correct Methods for Handling Tubing, Tube Fittings, and Tubing Components
CHECK18.2.1: Routine Inspection of Breakout Tanks	**CHECK01.7:** Visual Atmospheric Inspection	**CHECK44.3:** Design or Verify a Correct Layout of a Tubing System
CHECK31.1: Inspection for Clearance of Existing Pipe to Underground Structures	**CHECK19.2:** Locate a Pipeline	**CHECK44.4:** Correctly Cut and De-burr Metal Tubing
CHECK33.1: Replacement or Repair of Support Structures on Existing or New Aboveground Components	**CHECK19.3:** Install Temporary Pipeline Markers	**CHECK44.5:** Perform a Correct 90 Degree Bend of Metal Tubing
CHECK14.1: Identify and Describe the Different Types of External Coatings and How They are Applied	**CHECK19.4:** Inspect and Maintain Temporary Line Markers	**CHECK44.6:** Perform Installation of Small Diameter Compression Tube Fittings
CHECK14.2: Apply and Repair External Coatings	**CHECK29.1:** Determine Allowable Line Pressure in Section to be Moved	**CHECK47.2:** Flange or Dielectric Union Isolation/Insulation
CHECK14: Application and Repair of External Coatings	**CHECK73:** Join Plastic Pipe: Socket Heat Fusion	**CHECK47.3:** Isolation Joints
CHECK100: Cold Cutting	**CHECK29.2:** Prepare for Pipeline Movement Activities	**CHECK47.4:** Lightning and Ground Fault Protection
CHECK1081: Tapping a Pipeline (Tap Diameter 2 Inches or Less)	**CHECK20.1:** Function of Inspection Procedures and Leak Surveys	**CHECK47.5:** Electrical Isolation from Electrical Grounding
CHECK1082: Install Completion Plugs (Tap Diameter 2 Inches or Less)	**CHECK20.2:** Utilize Leak Survey Techniques	**CHECK47.6:** Aboveground Piping Isolation from Other Buried Structures
CHECK06.2.2: Perform Coating Inspection	**CHECK20.3:** Monitor for Pressure Loss	**CHECK47.7:** Casing Isolation/Insulation
CHECK06.3.2: Perform Surface Preparation (Abrasive Water Blasting)	**CHECK29.3:** Moving In-Service Pipe	**CHECK38.2:** Direct the Repair of Arc Burns
CHECK06.3.3: Perform Surface Preparation (Hand or Power Tools or Solvents)	**CHECK31.2:** Minimum Clearances, Interference and Corrosion Control Tests are Performed During Installation of Foreign Pipelines or Structures	**CHECK38.4:** Direct the Repair of a Cover Pass on a Weld Containing Defect other than a Crack

Published: July 22, 2026

CHECK ASSESSMENTS

Mobile-friendly versions of our skills assessments.

OQSG
A Smith System Company

CHECK38.3: Direct the Repair of Defective Welds Without Cracks	**CHECK58.4:** Operating Engine Driven Gas Compressor Unit	**CHECK13U:** Perform Underwater Pigging Activities
CHECK38.5: Direct the Repair of Butt Welds Containing Cracks	**CHECK03.2:** Cathodic Protection Rectifiers On/Off Test	**CHECK14U:** Perform Underwater Flange Mating Procedures
CHECK38.6: Direct the Repair of a Previously Repaired Area	**CHECK0611:** Perform NDT: Liquid Penetrant Testing	**CHECK0634:** Perform NDT: Magnetic Flux Leakage of Breakout Tanks
CHECK38.7: Direct the Replacement of a Weld or Cylinder of Pipe	**CHECK0631:** Perform NDT: Ultrasonic Testing	**CHECK01:** Conducting Annual Cathodic Protection Surveys
CHECK15U: Perform an Underwater Mechanical Hot Tap	**CHECK52.2:** Determine Odorant Injection Rates and Test for Odorant Levels	**CHECK01.5:** Test for Electrical Isolation
CHECK03: Inspect Cathodic Protection Rectifiers	**CHECK40.2:** Test, Calibrate, Repair, and Maintain CPM Equipment	**CHECK04.2:** Adjust a Rectifier
CHECK06.3: Perform Surface Preparation	**CHECK40.3:** Design Specifications of Leak Detection System	**CHECK04:** Cathodic Protection Rectifier Maintenance and Repair
CHECK06.3.1: Perform Surface Preparation (Dry Abrasive Blasting)	**CHECK01U:** Cathodic Protection Inspection on Underwater Facilities	**CHECK01.2:** Measure Structure-to-Electrolyte Potential
CHECK45.2: Perform Visual Surveys for Pipeline Leakage	**CHECK02U:** Prevent External Corrosion on Underwater Pipelines	**CHECK04.1:** Troubleshoot and Repair Rectifier
CHECK45.3: Perform Pipeline Leakage Survey Using a Combustible Gas Detector	**CHECK03U:** Measure Wall Thickness of Underwater Pipe	**CHECK0271:** Prove Flow Meters for Hazardous Liquid Leak Detection
CHECK45.4: Perform Pipeline Leakage Survey Using a Flame Ionization Detector	**CHECK04U:** Conduct Underwater Cathodic Protection Remediation	**CHECK0241:** Operate, Maintain, and Configure Flow Computers
CHECK45.5: Perform Pipeline Leakage Survey Using an Optical Methane Detector	**CHECK05U:** Conduct Temporary Marking of Underwater Pipelines	**CHECK07:** Measure Wall Thickness of Pipe
CHECK45.6: Perform Pipeline Leakage Survey Using a Remote Methane Leak Detector	**CHECK06U:** Conduct Underwater Valve Inspection, Maintenance, and Repair	**CHECK07.2:** Measure Pit Depth with Pit Gauge
CHECK61.1: Identify and Maintain Required Documentation	**CHECK07U:** Movement of In-Service Underwater Pipeline	**CHECK07.3:** Measure Pipe Wall Thickness with Ultrasonic Thickness Meter
CHECK61.2: Identify Accidents or Incidents that Require Reporting	**CHECK08U:** Abandoning, Safe Disconnect, Purging, and Sealing of Underwater Pipeline	**CHECK07.4:** Collect RSTRENG Data
CHECK61.3: Identify Operator Qualifications Record Keeping Requirements	**CHECK49:** Operate Air Movers	**CHECK08.4:** Test Station Installation
CHECK52.4: Inspection and Repair of Odorant Injection Systems	**CHECK101:** Operate and Maintain Closure Devices	**CHECK08.6:** Locate, Monitor and Clear Shorted Casing
CHECK55.1: Isolate a Gas Compressor Unit	**CHECK0621:** Perform NDT: Magnetic Particle Testing	**CHECK11:** Inspect, Test, and Calibrate Overfill Protective Devices
CHECK55.2: Prepare an Isolated Compressor Unit for Start-up	**CHECK0637:** Perform NDT: Vacuum Box Inspection	**CHECK13:** Inspect Internal Pipe Surfaces
CHECK57.2: Startup Turbine Driven Gas Compressor Unit	**CHECK0601:** Perform NDT: Radiographic Testing	**CHECK10.1:** Inspect for Physical Damage
CHECK57.3: Shutdown Turbine Driven Gas Compressor Unit	**CHECK11U:** Perform Underwater Pipeline Repair Activities	**CHECK08:** Conducting Cathodic Protection Remediation
CHECK57.4: Operating Turbine Driven Gas Compressor Unit	**CHECK09U:** Installation, Replacement, or Repair of Support Structures on Underwater Components	**CHECK10:** Inspect (Examine) Buried Pipe When Exposed
CHECK58.2: Startup Engine Driven Gas Compressor Unit	**CHECK10U:** Inspection of Underwater Pipeline Facilities	**CHECK16L:** Inspect Surface Conditions of Right-of-Way and Perform Leak Surveys (Liquid Pipeline)
CHECK58.3: Shutdown Engine Driven Gas Compressor Unit	**CHECK12U:** Operation of an Underwater Assembly	**CHECK22:** Inspect Valves

Published: July 22, 2026

CHECK ASSESSMENTS

Mobile-friendly versions of our skills assessments.

OQSG
A Smith System Company

CHECK07U.1: Move In-Service Pipeline

CHECK07U.2: Conduct Inspection of Pipeline for Secondary Stresses, Physical Damage, and Coating Damage

CHECK08U.1: Purge Pipeline

CHECK08U.2: Safely Disconnect Pipeline

CHECK08U.3: Seal Disconnected Segment of Pipeline

CHECK08U.4: Bury Disconnected Segment of Pipeline

CHECK09U.1: Replace or Repair Support Structures on Existing Underwater Components

CHECK09U.2: Install Additional Underwater Support Structure Elements to Components

CHECK10U.1: Conduct General Pipeline Inspection

CHECK10U.2: Inspect Pipeline Crossings

CHECK10U.3: Inspect Flanged Tie-ins

CHECK10U.4: Inspect Repairs

CHECK10U.5: Inspect Support Structures

CHECK11U.2: Install Mechanical Split Sleeve Repair Clamp

CHECK11U.3: Perform Basic Cutting Operations

CHECK11U.4: Install Mechanical Couplings

CHECK11U.5: Install Spool Piece

CHECK13U.1: Perform Basic Launching Procedures

CHECK13U.2: Perform Basic Receiving Procedures

CHECK14U.1: Perform General Flange Assembly Procedures

CHECK14U.2: Perform General Flange Disassembly Procedures

CHECK0451.2: Startup of a Pump in the Pipeline System at the Driver Control Panel

CHECK0451.3: Shutdown of a Pump in the Pipeline System at the Driver Control Panel

CHECK99: Cutting on Steel Pipeline

CHECK59.4.2: Install and Monitor a Mechanical Vapor Barrier

CHECK59.4.3: Install and Monitor a Freeze Plug Vapor Barrier

CHECK59.4.1: Install and Monitor an Inflatable Vapor Barrier

Published: July 22, 2026

CHECK ASSESSMENTS

CHECK02: Maintain Test Leads

Evaluates visually inspecting test leads, determining test lead continuity, measuring structure-to-electrolyte potential, repairing and replacing damaged test leads using nonexothermic welding or electrical mechanical connection methods, and potential abnormal operating conditions.

CHECK05: Electrically Inspect Bare Pipe

Evaluates inspection interval, measuring soil resistivity and soil-to-soil potential, and potential abnormal operating conditions.

CHECK09: Monitoring for Internal Corrosion

Evaluates how to safely extract or insert corrosion coupons and probes, collecting pipeline content samples, and potential abnormal operating conditions.

CHECK17: Inspect Navigable Waterway Crossing

Evaluates the use of probes, sonar, and other methods to verify the location of a pipeline, determine the depth of cover, and potential abnormal operating conditions.

CHECK18: Inspection of Breakout Tanks

Evaluates the inspection of breakout tanks in accordance with API Standard 653, 510, inspection of other breakout tanks, and potential abnormal operating conditions.

CHECK20: Inspection Following Excavation Activities and Leak Survey After Blasting

Evaluates inspecting after excavating, performing leak surveys, utilizing leak survey techniques, monitoring for pressure loss, and potential abnormal operating conditions.

CHECK21: Provide Security for Pipeline Facilities

Evaluates providing security for pipeline facilities and potential abnormal operating conditions.

CHECK28: Verify or Set Protection Parameters

Evaluates verifying data set points, parameters, and data location within PLC program, calibrating, testing, and documenting system set points, and potential abnormal operating conditions.

CHECK31: Measure Clearance from Existing Piping to Underground Structures Installed by Excavation, Boring, and Directional Drilling

Evaluates inspecting for clearance of existing pipe to underground structures, ensuring minimum clearances, interference, and corrosion control tests are performed during installation of foreign pipelines or structures, and potential abnormal operating conditions.

CHECK32: Abandoning, Safe Disconnect, Purging, and Sealing of Pipeline Facilities

Evaluates safely disconnecting and purging pipeline facilities, sealing disconnected portions of pipeline, and potential abnormal operating conditions.

CHECK33: Installation, Replacement or Repair of Support Structures on Existing or New Aboveground Components

Evaluates replacing or repairing support structures on existing or new aboveground components, installing additional or revised support structure elements to existing aboveground structures, and potential abnormal operating conditions.

CHECK30: Inspect Existing Pipe Following Movement

Evaluates inspecting pipeline for secondary stresses, physical damage, corrosion, and coating damage and potential abnormal operating conditions.

CHECK38: Maintenance Welding on Pipelines

Evaluates repairing arc burns, defective welds other than welds containing cracks, cover passes on welds containing defects other than a crack, butt welds containing cracks, and previously repaired areas, replacing welds or cylinders of pipe, and potential abnormal operating conditions.

CHECK40: CPM (Computational Pipeline Monitoring) Leak Detection

Evaluates testing, calibrating, repairing, and maintaining CPM equipment, verifying that the leak detection system meets design specifications, and potential abnormal operating conditions.

CHECK43: Perform Flange Bolting Procedures

Evaluates identifying hazards, performing hot bolting and flange assembly procedures, and potential abnormal operating conditions.

CHECK44: Tubing and Tube Fitting Handling and Installation

Evaluates handling tubing, tube fittings, and tubing components, designing or verifying a tubing system, cutting and de-burring metal tubing, bending metal tubing, installing compression tube fittings, and potential abnormal operating conditions.

CHECK110: Grinding, Sanding, or Buffing on Steel Pipeline

Evaluates removing defects by grinding, sanding, or buffing on steel pipeline, verifying minimum wall thickness, and potential abnormal operating conditions.

CHECK0221: Inspect, Test and Maintain Temperature Transmitters

Evaluates the use, inspection, testing, maintenance, verification, and calibration of temperature transmitters and potential abnormal operating conditions.

CHECK0261: Inspection, Testing and Corrective and Preventative Maintenance of Tank Gauging

Evaluates tank gauging and different types of tank gauging devices, inspection, testing, and corrective and preventative maintenance of tank gauging, and potential abnormal operating conditions.

CHECK41: Operate Pressure Relieving Devices for Launching and Receiving Facilities

Evaluates isolating, relieving pressure and draining fluids from the launcher and receiver barrel, launching and receiving a pig, and potential abnormal operating conditions.

CHECK0281: Maintain Flow Meters

Evaluates flow meter maintenance, device removal and reinstallation, performing meter loop integrity check, and potential abnormal operating conditions.

CHECK06.2: Inspection of Coatings

Identifies the practices necessary to inspect for atmospheric corrosion, inspect coatings before, during, and after the application process, and recognizing and reacting to abnormal operating conditions.

CHECK0591: Leak Test at Operating Pressure

Evaluates performing gas leak-age surveys, leak tests at operating pressure, and potential abnormal operating conditions.

CHECK46: Vault Maintenance

Evaluates performing vault maintenance and potential abnormal operating conditions.

CHECK50: Testing an Emergency Shutdown Device

Evaluates determining system testing method, testing full plant blow down system, isolating ESD devices, and potential abnormal operating conditions.

CHECK55: Isolation of a Gas Compressor Unit

Evaluates isolating a gas compressor unit, preparing an isolated compressor unit for start-up, and potential abnormal operating conditions.

CHECK56: Compressor Station Inspection and Testing of Remote Control Shutdown Devices

Evaluates inspecting, testing, and observing remote control shutdown devices and potential abnormal operating conditions.

CHECK57: Startup, Shutdown, and Operation of Turbine Driven Gas Compressor Unit

Evaluates starting up, operating, and shutting down a turbine driven gas compressor unit and potential abnormal operating conditions.

CHECK58: Startup, Shutdown, and Operation of an Engine Driven Gas Compressor Unit

Evaluates starting up, operating, and shutting down engine driven gas compressor unit and potential abnormal operating conditions.

CHECK62: Inspecting and Remediating Pipeline Hazard Protection

Evaluates identifying types of pipeline hazards, identifying and inspecting protective physical barriers, and potential abnormal operating conditions.

CHECK0451: Manual Startup and Shutdown of Pumps

Evaluates verifying pumps, performing prestart, post-start, and postrun inspections, manually starting up and shutting down pumps at the driver control panel, and potential abnormal operating conditions.

CHECK0271WD: Prove Flow Meters for Hazardous Liquid Leak Detection: Water Draw

Evaluates flow meter proving, establishing repeatability, calculating meter factor, and potential abnormal operating conditions.

CHECK0281C: Maintain Flow Meters: Coriolis

Evaluates flow meter maintenance, device removal and reinstallation, performing meter loop integrity check, and potential abnormal operating conditions.

CHECK0281M: Maintain Flow Meters: Magmeter

Evaluates flow meter maintenance, device removal and reinstallation, performing meter loop integrity check, and potential ab-normal operating conditions.

CHECK0281O: Maintain Flow Meters: Orifice

Evaluates flow meter maintenance, device removal and reinstallation, performing meter loop integrity check, and potential abnormal operating conditions.

CHECK0281PD: Maintain Flow Meters: Positive Displacement

Evaluates flow meter maintenance, device removal and reinstallation, performing meter loop integrity check, and potential abnormal operating conditions.

CHECK0281T: Maintain Flow Meters: Turbine

Evaluates flow meter maintenance, device removal and reinstallation, performing meter loop integrity check, and potential abnormal operating conditions.

CHECK0281TM: Maintain Flow Meters: Thermal Mass

Evaluates flow meter maintenance, device removal and reinstallation, performing meter loop integrity check, and potential abnormal operating conditions.

CHECK0281U: Maintain Flow Meters: Ultrasonic

Evaluates flow meter maintenance, device removal and reinstallation, performing meter loop integrity check, and potential abnormal operating conditions.

CHECK0281V: Maintain Flow Meters: Vortex

Evaluates flow meter maintenance, device removal and reinstallation, performing meter loop integrity check, and potential abnormal operating conditions.

CHECK06J: Electrical Inspection of Coatings (Jeeping)

Evaluates grounding structures and detectors, determining minimum effective voltage, operating voltage detectors, and potential abnormal operating conditions.

CHECK16G: Inspect Surface Conditions of Right-of-Way and Perform Leak Surveys (Gas Pipeline)

Evaluates visually inspecting surface conditions of right-of-way, identifying release or encroachment activities, performing gas leakage surveys, and potential abnormal operating conditions.

CHECK29: Moving In-Service Pipe

Evaluates preparing for pipeline movement activities, moving in-service pipe, and potential abnormal operating conditions.

CHECK51: Perform Incremental Pressure Increases to Uprate MAOP

Evaluates increasing and monitoring pipeline pressure, performing leak surveys, and potential abnormal operating conditions.

CHECK52: Operate Odorant Equipment

Evaluates determining odorant injection rates, testing odorant levels, inspecting, repairing odorant injection systems, and potential abnormal operating conditions.

CHECK54: Gas Detection and Alarm System Maintenance and Performance Testing

Evaluates calibrating, testing, and maintaining gas detection systems, documenting according to MSDS, and potential abnormal operating conditions.

CHECK61: Documentation, Reporting, and OQ Record Keeping

Evaluates maintaining testing and inspection records, identifying accidents and incidents that require reporting, OQ record keeping requirements, and potential abnormal operating conditions.

CHECK19: Provide Temporary Marking of Buried Pipeline Prior to Excavation

Evaluates locating a pipeline, installing temporary pipeline markers, inspecting and maintaining temporary line markers, and potential abnormal operating conditions.

CHECK63: Inspect Tank Pressure Vacuum Breakers

Evaluates verifying, inspecting, disassembling, and reassembling tank pressure vacuum breakers, validating pallet weight, and potential abnormal operating conditions.

CHECK65: Damage Prevention During Excavation Activities by or on Behalf of the Operator

Evaluates verifying line location, identifying potential hazardous surface conditions, confirming spoil placement, using hand tools and vacuums, ensuring pipeline support and security, and potential abnormal operating conditions.

CHECK01.3ACVG: Conduct AC Voltage Gradient Survey

Evaluates conducting ACCA/PCM indirect inspection survey and potential abnormal operating conditions.

CHECK01.3DCVG: Conduct DC Voltage Gradient Survey

Evaluates conducting DCVG inspection and potential abnormal operating conditions.

CHECK36.8: Install Pipeline Plugs

Evaluates installing plugging assembly, inserting and removing plug, monitoring pressure, removing plugging assembly, and potential abnormal operating conditions.

CHECK1301: Install and Maintain Pipeline Markers

Evaluates installing, inspecting, and maintaining line markers, determining right-of-way access, and potential abnormal operating conditions.

CHECK0721: Joining of Pipe: Threaded Joints

Evaluates choosing, connecting, and inspecting threaded joints and potential abnormal operating conditions.

CHECK47: Install Electrical Insulating Device

Evaluates electrically isolating pipelines from other processes to reduce the risk of corrosion and potential abnormal operating conditions.

CHECK1291: Locate Underground Pipelines

Evaluates determining right-of-way access, locating underground pipelines, determining pipeline depth, and potential abnormal operating conditions.

CHECK15: Placing and Maintaining Line Markers

Evaluates locating a pipeline, installing a line marker, inspecting and maintaining line markers, and potential abnormal operating conditions.

CHECK06.4: Perform Coating Application

Identifies the practices necessary to apply protective coating, ensures post coating actions are taken, and recognizing and reacting to abnormal operating conditions.

CHECK01.3ACCA: Conduct AC Current Attenuation Survey

Evaluates conducting ACCA/PCM indirect inspection survey and potential abnormal operating conditions.

CHECK12: Internal Corrosion Remediation

Evaluates adjusting inhibitor injection rates to prevent internal corrosion, achieving acceptable industry and company standards, and potential abnormal operating conditions.

CHECK36.3: Perform Over-Sleeve Repair Installation

Evaluates confirming surface preparation, filling defects, confirming sleeve length and material, fitting over-sleeves, and potential abnormal operating conditions.

CHECK36.6: Install Mechanical Coupling

Evaluates confirming surface preparation, sleeve length, and material, installing mechanical couplings, and potential abnormal operating conditions.

CHECK0031: Inspect and Monitor Galvanic Ground Beds/Anodes

Evaluates inspecting and monitoring galvanic ground beds/anodes, obtaining structure-to-electrolyte and current output readings, and potential abnormal operating conditions.

CHECK48.4: Purging Pipeline with Product

Evaluates aligning valves, pigging pipeline, purging pipeline, and checking pipeline pressure and potential abnormal operating conditions.

CHECK48.2: Purging Hydrocarbons from a Pipeline

Evaluates isolating pipeline, pigging pipeline, and removing hydrocarbons, and potential abnormal operating conditions.

CHECK48.3: Purging Air from a Pipeline

Evaluates aligning valves, pigging pipeline, checking pipeline pressure, and removing air, and potential abnormal operating conditions.

CHECK03.1: Rectifier Voltage and Current Inspection

Evaluates inspecting for damage, taking voltage readings, determining mV drop across shunt, and calculating current flow? and potential abnormal operating conditions.

CHECK48: Purge a Pipeline

Evaluates purging hydrocarbons and air from a pipeline, purging pipeline with product, and potential abnormal operating conditions.

CHECK09.3: Collecting a Sample of Pipeline Contents

Evaluates how to safely collect pipeline content samples and recognize and react to potential abnormal operating conditions.

CHECK0291: Inspect, Test and Maintain Gravitometers and Densitometers

Evaluates inspecting, testing, calibrating, and maintaining gravitometers and densitometers, calculating density correction factor, removing and reinstalling device, performing loop integrity check, and potential abnormal operating conditions.

CHECK01.3: Perform Close Interval Survey

Evaluates selecting and inspecting reference electrodes, taking structure-to-electrolyte measurements, identifying potential measurement reading range, identifying causes for readings outside of the normal range, and recognizing and reacting to abnormal operating conditions.

CHECK01.4: Perform Interference Testing

Evaluates measuring structure-to-electrolyte potential, determining current direction and magnitude, determining IR drop, detecting interference, and recognizing and reacting to abnormal operating conditions.

CHECK01.6: Inspect and Electrically Test Bonds

Evaluates measuring structure-to-electrolyte potential, current magnitude, determining polarity, and recognizing and reacting to abnormal operating conditions.

CHECK02.2: Inspect & Verify Test Lead Continuity

Evaluates visually inspecting test leads, determining test lead continuity, measuring structure-to-electrolyte potential, and recognizing and reacting to abnormal operating conditions.

CHECK02.3: Repair or Replace Damaged Test Lead

Evaluates? repairing and replacing damaged test leads using nonexothermic welding or electrical mechanical connection methods, verifying test lead continuity and functionality, and recognizing and reacting to abnormal operating conditions.

CHECK05.2: Soil Resistivity Measurement

Evaluates measuring soil resistivity by performing the four-pin method, the soil box method, and the resistivity single-probe method and recognizing and reacting to abnormal operating conditions.

CHECK05.3: Soil-to-Soil Potential Survey

Evaluates ?taking soil-to-soil potential measurements along the pipeline and recognizing and reacting to abnormal operating conditions.

CHECK09.1: Extract or Insert Corrosion Coupons

Evaluates how to safely extract and install corrosion coupons and recognizing and reacting to abnormal operating conditions.

CHECK09.2: Remove and Insert Corrosion Probes

Evaluates how to safely extract and install corrosion probes and recognizing and reacting to abnormal operating conditions.

CHECK71: Join Plastic Pipe: Sidewall Heat Fusion

Evaluates preparing mating surfaces, fusion equipment, and heating tool, heating and joining mating surfaces with sidewall heat fusion, inspecting fusion joints, and recognizing and reacting to abnormal operating conditions.

CHECK70: Join Plastic Pipe: Butt Heat Fusion

Evaluates preparing mating surfaces, fusion equipment, and heating tool, heating and joining mating surfaces with butt heat fusion, inspecting fusion joints, and recognizing and reacting to abnormal operating conditions.

CHECK06.2.1: Visual Inspection of Coatings

Evaluates identifying surface type, checking critical areas and entire surface for atmospheric corrosion and physical damage and recognizing and reacting to abnormal operating conditions.

CHECK18.2.1: Routine Inspection of Breakout Tanks

Evaluates inspecting tanks, tank shells, foundations, secondary containment systems, and tank roofs and recognizing and reacting to abnormal operating conditions.

CHECK31.1: Inspection for Clearance of Existing Pipe to Underground Structures

Evaluates locating and determining clearance between pipelines and foreign structures and recognizing and reacting to abnormal operating conditions.

CHECK33.1: Replacement or Repair of Support Structures on Existing or New Aboveground Components

Evaluates installing and removing temporary supports, inspecting pipeline for secondary stress, replacing or repairing permanent supports, and recognizing and reacting to abnormal operating conditions.

CHECK14.1: Identify and Describe the Different Types of External Coatings and How They are Applied

Evaluates identifying coating types and recognizing and reacting to abnormal operating conditions.

CHECK14.2: Apply and Repair External Coatings

Evaluates repairing existing coatings, prepping pipe for coating repair, preparing and applying coating, measuring, inspecting, and curing applied coating, and recognizing and reacting to abnormal operating conditions.

CHECK14: Application and Repair of External Coatings

Evaluates external coating types, performing surface preparation, applying and repairing coating, testing for defects, and reacting to and recognizing abnormal operating conditions.

CHECK100: Cold Cutting

Evaluates verification of pipeline conditions, equipment installation, use of cutting equipment, removal of equipment, and potential abnormal operating conditions.

CHECK1081: Tapping a Pipeline (Tap Diameter 2 Inches or Less)

Evaluates installing hot tap assemblies, cutting pipe, removing coupons, inserting completion plug, and potential abnormal operating conditions.

CHECK1082: Install Completion Plugs (Tap Diameter 2 Inches or Less)

Evaluates installing and removing completion plug assembly, inspecting and assembling tapping machine, installing completion cap, and potential abnormal operating conditions.

CHECK06.2.2: Perform Coating Inspection

Evaluates measuring coating surface profile and thickness, inspecting for deficiencies, and recognizing and reacting to abnormal operating conditions.

CHECK06.3.2: Perform Surface Preparation (Abrasive Water Blasting)

Evaluates using abrasive water blasting to prepare pipe surface for coating, inspecting for contaminants, disposing of waste, and recognizing and reacting to abnormal operating conditions.

CHECK06.3.3: Perform Surface Preparation (Hand or Power Tools or Solvents)

Evaluates using hand tools, power tools, or solvents to prepare pipe surface for coating, inspecting for contaminants, disposing of waste, and recognizing and reacting to abnormal operating conditions.

CHECK06.4.1: Perform Coating Application Hand Application Methods

Evaluates applying protective coating with a brush or roller, inspecting the coating, and recognizing and reacting to abnormal operating conditions.

CHECK06.4.2: Perform Coating Application Spray Application Methods

Evaluates applying protective coating by spraying, inspecting the coating, and recognizing and reacting to abnormal operating conditions.

CHECK06.4.3: Perform Coating Application Wrapped Methods

Evaluates applying protective wrap tape coating, inspecting the coating, and recognizing and reacting to abnormal operating conditions.

CHECK72: Join Plastic Pipe: Electrofusion

Evaluates how to assemble and join plastic pipe by electrofusion, inspect the completed joints, and recognize and react to abnormal operating conditions.

CHECK15.2: Locate a Pipeline

Evaluates locating a pipeline by inductive, conductive, inductive clamp, or probing methods, and recognizing and reacting to abnormal operating conditions.

CHECK15.3: Install a Line Marker

Evaluates installing line markers and mounting apparatuses and recognizing and reacting to abnormal operating conditions.

CHECK15.4: Inspect and Maintain Line Markers

Evaluates inspecting and maintaining line markers and recognizing and reacting to abnormal operating conditions.

CHECK16G.1: Inspect Surface Conditions of Right-of-Way

Evaluates visually inspecting surface conditions of the right-of-way, identifying a release of product or encroachment activities, and recognizing and reacting to abnormal operating conditions.

CHECK16G.2: Perform Gas Leakage Surveys

Evaluates conducting gas leakage surveys and recognizing and reacting to abnormal operating conditions.

CHECK18.2: Inspect Breakout Tanks in Accordance with API Standards 653

Evaluates the inspection of breakout tanks in accordance with API Standard 653 and recognizing and reacting to abnormal operating conditions.

CHECK18.3: Inspection of Breakout Tanks in Accordance with API Standards 510

Evaluates the inspection of breakout tanks in accordance with API Standard 510 and recognizing and reacting to abnormal operating conditions.

CHECK18.4: Inspect Other Breakout Tanks

Evaluates inspecting out-of-service tanks and recognizing and reacting to abnormal operating conditions.

CHECK01.7: Visual Atmospheric Inspection

Evaluates inspecting coating for deficiencies and corrosion and recognizing and reacting to abnormal operating conditions.

CHECK19.2: Locate a Pipeline

Evaluates locating a pipeline, determining the depth of pipeline, and recognizing and reacting to abnormal operating conditions.

CHECK19.3: Install Temporary Pipeline Markers

Evaluates installing temporary pipeline markers and recognizing and reacting to abnormal operating conditions.

CHECK19.4: Inspect and Maintain Temporary Line Markers

Evaluates inspecting and maintaining temporary line markers and recognizing and reacting to abnormal operating conditions.

CHECK29.1: Determine Allowable Line Pressure in Section to be Moved

Evaluates determining the allowable line pressure in a section of pipe that is to be moved and recognizing and reacting to abnormal operating conditions.

CHECK73: Join Plastic Pipe: Socket Heat Fusion

Evaluates preparing mating surfaces, fusion equipment, and heating tool, heating and joining pipe and fitting mating surfaces with socket heat fusion, inspecting completed joints, and recognizing and reacting to abnormal operating conditions.

CHECK29.2: Prepare for Pipeline Movement Activities

Evaluates reducing pipeline pressure, ensuring damage prevention procedures are followed, performing external visual inspection, and recognizing and reacting to abnormal operating conditions.

CHECK20.1: Function of Inspection Procedures and Leak Surveys

Evaluates determining the general location of a pipeline, notifying appropriate personnel prior to excavation, determining right-of-way access, and recognizing and reacting to abnormal operating conditions.

CHECK20.2: Utilize Leak Survey Techniques

Evaluates inspecting surface conditions and right-of-way, performing leak survey, locating,? excavating, and? visually inspecting pipeline, and recognizing and reacting to abnormal operating conditions.

CHECK20.3: Monitor for Pressure Loss

Evaluates reviewing historical pressure data, checking for pressure loss, and recognizing and reacting to abnormal operating conditions.

CHECK29.3: Moving In-Service Pipe

Evaluates controlling valves upstream and downstream of pipe segment movement, applying lifting devices, moving pipe, inspecting moved pipe, and recognizing and reacting to abnormal operating conditions.

CHECK31.2: Ensure Minimum Clearances, Interference and Corrosion Control Tests are Performed During Installation of Foreign Pipelines or Structures

Evaluates verifying clearance between pipeline and foreign structures, taking and analyzing structure-to-electrolyte potential measurements, conducting interference testing, and recognizing and reacting abnormal operating conditions.

CHECK32.2: Safely Disconnect Pipeline Facilities

Evaluates isolating pipe segments, depressurizing pipe contents, bonding pipe, separating pipe segments, and recognizing and reacting to abnormal operating conditions.

CHECK32.3: Purge Pipeline Facilities

Evaluates purging disconnected pipe segment, checking for hazardous vapors, disposing of pipeline content, and recognizing and reacting to abnormal operating conditions.

CHECK32.4: Seal a Disconnected Portion of a Pipeline

Evaluates sealing pipeline segment, abandoning offshore pipeline in place, and recognizing and reacting to abnormal operating conditions.

CHECK33.2: Install Additional or Revised Support Structure Elements to Existing Aboveground Structures

Evaluates installing and removing temporary supports, inspecting for secondary stress, installing permanent supports, leveling pipe, and recognizing and reacting to abnormal operating conditions.

CHECK41.2: Sequence of Events Needed to Isolate, Relieve Pressure, and Drain Fluids from the Launcher Barrel

Evaluates isolating valves, relieving pressure from launcher barrel, draining fluids from pig launcher barrel, and recognizing and reacting to abnormal operating conditions.

CHECK41.3: Procedure Involved with Launching a Pig

Evaluates inserting pig into launcher barrel, launching pig, returning to normal operations, and recognizing and reacting to abnormal operating conditions.

CHECK41.5: Procedure Involved with Receiving a Pig

Evaluates opening and closing bypass valves and inlet receivers in order to receive a pig and recognizing and reacting to abnormal operating conditions.

CHECK41.6: Sequence of Events Needed to Isolate, Relieve Pressure, and Drain Fluids from the Receiver Barrel

Evaluates isolating receiver barrels and valves, relieving pressure from receiver barrels, evacuating fluids, opening barrel doors, removing pigs, closing barrel doors, and recognizing and reacting to abnormal operating conditions.

CHECK43.1: Identify Hazards and Perform Hot Bolting

Evaluates performing hot bolting, inspecting flange prior to and following hot bolting, and recognizing and reacting to abnormal operating conditions.

CHECK43.2: Perform Flange Assembly Procedures (Make-Up)

Evaluates preparing pipe for make-up of flange, aligning flange, installing gasket, lubricating threads, applying torque, and recognizing and reacting to abnormal operating conditions.

CHECK43.3: Perform Flange Disassembly Procedures (Break-Out)

Evaluates preparing pipe for break-out of flange, releasing tension from bolts, and recognizing and reacting to abnormal operating conditions.

CHECK44.2: Demonstrate the Correct Methods for Handling Tubing, Tube Fittings, and Tubing Components

Evaluates proper lifting and transporting of tubing, inspecting tubing for defects, and recognizing and reacting to abnormal operating conditions.

CHECK44.3: Design or Verify a Correct Layout of a Tubing System

Evaluates planning tubing runs, ensuring accessibility to equipment, verifying supports, using expansion loops, and recognizing and reacting to abnormal operating conditions.

CHECK44.4: Correctly Cut and De-burr Metal Tubing

Evaluates cutting and smoothing tubing and recognizing and reacting to abnormal operating conditions.

CHECK44.5: Perform a Correct 90 Degree Bend of Metal Tubing

Evaluates determining bend radius, bending tubing, inspecting for abnormalities, and recognizing and reacting to abnormal operating conditions.

CHECK44.6: Perform Installation of Small Diameter Compression Tube Fittings

Evaluates matching and connecting tubing and fittings, tightening fittings, inspecting for “pull up”, and recognizing and reacting to abnormal operating conditions.

CHECK47.2: Flange or Dielectric Union Isolation/Insulation

Evaluates inspecting insulating sleeve kits, verifying flange alignment, installing flange kit, verifying isolation, and recognizing and reacting to abnormal operating conditions.

CHECK47.3: Isolation Joints

Evaluates installing and terminating bond wires, verifying isolation of the device, and recognizing and reacting to abnormal operating conditions.

CHECK47.4: Lightning and Ground Fault Protection

Evaluates installing insulating devices, verifying bonds, verifying isolation, and recognizing and reacting to abnormal operating conditions.

CHECK47.5: Electrical Isolation from Electrical Grounding

Evaluates installing PCR or SSD to isolate pipeline, testing feeder cables, verifying isolation, and recognizing and reacting to abnormal operating conditions.

CHECK47.6: Aboveground Piping Isolation from Other Buried Structures

Evaluates confirming pipeline isolation from foreign structures or materials, aligning isolation devices, installing non-metallic spacers, verifying isolation, and recognizing and reacting to abnormal operating conditions.

CHECK47.7: Casing Isolation/Insulation

Evaluates clearing annular space, installing spacer or shields, installing end seals, verifying isolation, and recognizing and reacting to abnormal operating conditions.

CHECK38.2: Direct the Repair of Arc Burns

Evaluates checking atmospheric conditions and pipeline operating pressure, removing arc burn, measuring wall thickness, and recognizing and reacting to abnormal operating conditions.

CHECK38.4: Direct the Repair of a Cover Pass on a Weld Containing Defect other than a Crack

Evaluates analyzing NDT data, inspecting cover pass repairs, and recognizing and reacting to abnormal operating conditions.

CHECK38.3: Direct the Repair of Defective Welds Without Cracks

Evaluates analyzing NDT data, inspecting repairs, and recognizing and reacting to abnormal operating conditions.

CHECK38.5: Direct the Repair of Butt Welds Containing Cracks

Evaluates analyzing NDT data, inspecting butt weld repairs, and recognizing and reacting to abnormal operating conditions.

CHECK38.6: Direct the Repair of a Previously Repaired Area

Evaluates analyzing NDT data, inspecting repairs of previous repairs, and recognizing and reacting to abnormal operating conditions.

CHECK38.7: Direct the Replacement of a Weld or Cylinder of Pipe

Evaluates determining pipe replacement procedures, ensuring isolation and product evacuation, ensuring use and removal of sealing devices, aligning pipe, inspecting weld, and reacting to abnormal operating conditions.

CHECK15U: Perform an Underwater Mechanical Hot Tap

Evaluates cleaning pipeline, checking wall thickness, installing hot tap fitting, operating cutting tool, repairing coating, reburying pipeline, and recognizing and reacting to abnormal operating conditions.

CHECK03: Inspect Cathodic Protection Rectifiers

Evaluates inspecting cathodic protection rectifiers, measuring structure-to-electrolyte IR drop readings, determining protection adequacy, and potential abnormal operating conditions.

CHECK06.3: Perform Surface Preparation

Identifies the practices necessary to prepare a pipeline surface prior to the application of a protective coating and recognizing and reacting to abnormal operating conditions.

CHECK06.3.1: Perform Surface Preparation (Dry Abrasive Blasting)

Evaluates using dry abrasive blasting to prepare pipe surface for coating, inspecting for contaminants, disposing of waste, and recognizing and reacting to abnormal operating conditions.

CHECK45.2: Perform Visual Surveys for Pipeline Leakage

Evaluates traversing pipeline right-of-way, examining for indications of a leak, and recognizing and reacting to abnormal operating conditions.

CHECK45.3: Perform Pipeline Leakage Survey Using a Combustible Gas Detector

Evaluates monitoring combustible gas detector readings and recognizing and reacting to abnormal operating conditions.

CHECK45.4: Perform Pipeline Leakage Survey Using a Flame Ionization Detector

Evaluates monitoring flame ionization detector readings and recognizing and reacting to abnormal operating conditions.

CHECK45.5: Perform Pipeline Leakage Survey Using an Optical Methane Detector

Evaluates monitoring optical methane detector readings and recognizing and reacting to abnormal operating conditions.

CHECK45.6: Perform Pipeline Leakage Survey Using a Remote Methane Leak Detector

Evaluates monitoring readings of remote methane leak detectors and recognizing and reacting to abnormal operating conditions.

CHECK61.1: Identify and Maintain Required Documentation

Evaluates maintaining documentation regarding pipeline operations and maintenance, abnormal operations, and emergencies.

CHECK61.2: Identify Accidents or Incidents that Require Reporting

Evaluates identifying which accidents and incidents must be reported to the DOT.

CHECK61.3: Identify Operator Qualifications Record Keeping Requirements

Evaluates maintaining operator qualification records.

CHECK52.4: Inspection and Repair of Odorant Injection Systems

Evaluates inspecting and repairing odorant injection systems, adjusting injection rates, and recognizing and reacting to abnormal operating conditions.

CHECK55.1: Isolate a Gas Compressor Unit

Evaluates isolating gas compressors and recognizing and reacting to abnormal operating conditions.

CHECK55.2: Prepare an Isolated Compressor Unit for Start-up

Evaluates removing isolation devices, purging air from compressor and piping, checking operating pressure, and recognizing and reacting to abnormal operating conditions.

CHECK57.2: Startup Turbine Driven Gas Compressor Unit

Evaluates understanding pre-start procedures, starting up compressor, and recognizing and reacting to abnormal operating conditions.

CHECK57.3: Shutdown Turbine Driven Gas Compressor Unit

Evaluates understanding shutdown procedures, shutting down compressor, and recognizing and reacting abnormal operating conditions.

CHECK57.4: Operating Turbine Driven Gas Compressor Unit

Evaluates checking suction, discharge, coolant system, compressor speeds, and levels in separation equipment and recognizing and reacting to abnormal operating conditions.

CHECK58.2: Startup Engine Driven Gas Compressor Unit

Evaluates understanding compressor startup procedures, performing startup, returning to service, and recognizing and reacting to abnormal operating conditions.

CHECK58.3: Shutdown Engine Driven Gas Compressor Unit

Evaluates understanding compressor shutdown procedures, performing shutdown, and recognizing and reacting to abnormal operating conditions.

CHECK58.4: Operating Engine Driven Gas Compressor Unit

Evaluates checking suction, discharge, coolant system, and levels in separation equipment and recognizing and reacting to abnormal operating conditions.

CHECK03.2: Cathodic Protection Rectifiers On/Off Test

Evaluates performing on/off test and determining adequacy of cathodic protection and potential abnormal operating conditions.

CHECK0611: Perform NDT: Liquid Penetrant Testing

Evaluates preparing a surface for nondestructive testing, applying penetrants, removers, and developers, inspecting for indications, and recognizing and reacting to abnormal operating conditions.

CHECK0631: Perform NDT: Ultrasonic Testing

Evaluates performing ultrasonic testing, evaluating results for indications, and recognizing and reacting to abnormal operating conditions.

CHECK52.2: Determine Odorant Injection Rates and Test for Odorant Levels

Evaluates ensuring odorant properties, checking odorant concentrations, adjusting injection rates, and recognizing and reacting to abnormal operating conditions.

CHECK40.2: Test, Calibrate, Repair, and Maintain CPM Equipment

Evaluates preparing written CPM test and calibration plan, verifying proper working order of CPM devices and PLCs, and recognizing and reacting to abnormal operating conditions.

CHECK40.3: Design Specifications of Leak Detection System

Evaluates preparing written CPM test and calibration plan, performing function test of CPM input devices, determining cause of improper CPM output, and recognizing and reacting to abnormal operating conditions.

CHECK01U: Cathodic Protection Inspection on Underwater Facilities

Evaluates preparing and calibrating test equipment, taking and recording cathodic protection readings, and potential abnormal operating conditions.

CHECK02U: Prevent External Corrosion on Underwater Pipelines

Evaluates inspecting and removing damaged coatings, installing wrap and epoxy repairs, and potential abnormal operating conditions.

CHECK03U: Measure Wall Thickness of Underwater Pipe

Evaluates preparing pipeline surface for ultrasonic thickness testing, measuring pit dimensions, and potential abnormal operating conditions.

CHECK04U: Conduct Underwater Cathodic Protection Remediation

Evaluates installing galvanic anodes on submerged pipelines or facilities and potential abnormal operating conditions.

CHECK05U: Conduct Temporary Marking of Underwater Pipelines

Evaluates locating a pipeline, determining buried and exposed pipeline depth, installing temporary pipeline markers, and potential abnormal operating conditions.

CHECK06U: Conduct Underwater Valve Inspection, Maintenance, and Repair

Evaluates identifying, visually inspecting, operating, greasing, and repairing valves and potential abnormal operating conditions.

CHECK07U: Movement of In-Service Underwater Pipeline

Evaluates lifting and lowering in-service underwater pipeline, inspecting for secondary stresses, physical damage, and coating damage, determining pipeline depth, and potential abnormal operating conditions.

CHECK08U: Abandoning, Safe Disconnect, Purging, and Sealing of Underwater Pipeline

Evaluates isolating, purging, disconnecting underwater pipeline, sealing segments and burying disconnected segments of pipeline, and potential abnormal operating conditions.

CHECK49: Operate Air Movers

Evaluates installing, operating, and uninstalling air movers to evacuate vapors from a pipeline and recognizing and reacting to abnormal operating conditions.

CHECK101: Operate and Maintain Closure Devices

Evaluates opening, closing, and maintaining closure devices and recognizing and reacting to abnormal operating conditions.

CHECK0621: Perform NDT: Magnetic Particle Testing

Evaluates preparing a surface for nondestructive testing, introducing a magnetic field, applying particle medium, inspecting for indications, and potential abnormal operating conditions.

35 min.

CHECK0637: Perform NDT: Vacuum Box Inspection

Evaluates preparing a surface for nondestructive testing, applying leak detection solution, applying vacuum, observing for bubble formations, and recognizing and reacting to abnormal operating conditions.

CHECK0601: Perform NDT: Radiographic Testing

Evaluates inspecting and calibrating radiographic equipment, preparing the test area, positioning imaging media and exposure device, interpreting test results, and recognizing and reacting to abnormal operating conditions.

CHECK11U: Perform Underwater Pipeline Repair Activities

Evaluates excavating, prepping surface of, and cutting pipeline; installing mechanical split sleeve repair clamps, mechanical couplings, and spool pieces; performing pressure tests; and potential abnormal operating conditions.

CHECK09U: Installation, Replacement, or Repair of Support Structures on Underwater Components

Evaluates replacing, repairing, and inspecting support structures, installing and inspecting additional support structure elements, and potential abnormal operating conditions.

CHECK10U: Inspection of Underwater Pipeline Facilities

Evaluates inspecting pipeline crossings, flanged tie-ins, repairs, and support structures and potential abnormal operating conditions.

CHECK12U: Operation of an Underwater Assembly

Evaluates identifying and manually operating ball, check, and needle valves on an underwater assembly and potential abnormal operating conditions.

CHECK13U: Perform Underwater Pigging Activities

Evaluates performing basic launching and receiving procedures and potential abnormal operating conditions.

CHECK14U: Perform Underwater Flange Mating Procedures

Evaluates aligning flanges, installing and removing bolts and ring gasket, plugging or capping the pipeline, and potential abnormal operating conditions.

CHECK0634: Perform NDT: Magnetic Flux Leakage of Breakout Tanks

Evaluates removing large debris from tank bottoms, scanning tank bottoms, marking indications, and recognizing and reacting to abnormal operating conditions.

CHECK01: Conducting Annual Cathodic Protection Surveys

Evaluates measuring structure-to-electrolyte potential, performing close interval surveys and interference testing, testing electrical isolation, inspecting and testing bonds, inspecting for atmospheric corrosion, and potential abnormal operating conditions.

CHECK01.5: Test for Electrical Isolation

Evaluates measuring resistance across fittings, testing for electrical isolation between structures, and recognizing and reacting to abnormal operating conditions.

CHECK04.2: Adjust a Rectifier

Evaluates adjusting rectifier cabinet settings and potential abnormal operating conditions.

CHECK04: Cathodic Protection Rectifier Maintenance and Repair

Evaluates inspecting rectifier cabinets, testing transformers, fuses, and rectifier assemblies, adjusting tap settings, and potential abnormal operating conditions.

CHECK01.2: Measure Structure-to-Electrolyte Potential

Evaluates elements of cathodic protection surveys, measuring structure-to-electrolyte potential, and potential abnormal operating conditions.

CHECK04.1: Troubleshoot and Repair Rectifier

Evaluates inspecting rectifier cabinets, testing transformers, fuses, and rectifier assemblies, and potential abnormal operating conditions.

CHECK0271: Prove Flow Meters for Hazardous Liquid Leak Detection

Evaluates flow meter proving, establishing repeatability, calculating meter factor, and potential abnormal operating conditions.

CHECK0241: Operate, Maintain, and Configure Flow Computers

Evaluates operation, maintenance, and configuration of flow computers and potential abnormal operating conditions.

CHECK07: Measure Wall Thickness of Pipe

Evaluates measuring pit depth using a pit gauge, measuring pipe wall thickness with an ultrasonic thickness meter, collecting RSTRENG Data, and potential abnormal operating conditions.

CHECK07.2: Measure Pit Depth with Pit Gauge

Evaluates inspecting pits for debris, measuring pit depth with a pit gauge, and recognizing and reacting to? abnormal operating conditions.

CHECK07.3: Measure Pipe Wall Thickness with Ultrasonic Thickness Meter

Evaluates preparing the pipe surface, applying couplant, obtaining UT readings and recognizing and reacting to abnormal operating conditions.

CHECK07.4: Collect RSTRENG Data

Evaluates preparing the pipe surface, measuring pit width and length, mapping a measurement grid, and recognizing and reacting to abnormal operating conditions.

CHECK08.4: Test Station Installation

Evaluates installing test stations and recognizing and reacting to abnormal operating conditions.

CHECK08.6: Locate, Monitor and Clear Shorted Casing

Evaluates locating, monitoring, and clearing shorted casing and recognizing and reacting to abnormal operating conditions.

CHECK11: Inspect, Test, and Calibrate Overfill Protective Devices

Evaluates inspection and calibration of Overfill Protective Devices and potential abnormal operating conditions.

CHECK13: Inspect Internal Pipe Surfaces

Evaluates recognizing common types of internal corrosion, their mechanisms, and potential abnormal operating conditions.

CHECK10.1: Inspect for Physical Damage

Evaluates inspecting pipe for integrity issues, physical damage, and appropriate support and recognizing and reacting to abnormal operating conditions.

CHECK08: Conducting Cathodic Protection Remediation

Evaluates installing electrical bonds, galvanic and impressed current anodes, transformer/rectifiers, and test stations, conducting thermite welding procedures, locating, monitoring, and clearing shorted casing, and potential abnormal operating conditions.

CHECK10: Inspect (Examine) Buried Pipe When Exposed

Evaluates inspecting normally buried pipe and its coating for physical damage and corrosion and potential abnormal operating conditions.

CHECK16L: Inspect Surface Conditions of Right-of-Way and Perform Leak Surveys (Liquid Pipeline)

Evaluates inspecting surface conditions of right-of-way, following company reporting protocols, and potential abnormal operating conditions.

CHECK22: Inspect Valves

Evaluates locating valves, isolating leaks, performing function tests, performing routine maintenance, and potential abnormal operating conditions.

CHECK23: Repair Valves

Evaluates repairing valves and actuators/operators and potential abnormal operating conditions.

CHECK24: Inspect, Test, and Calibrate Relief Valves

Evaluates locating relief valves, identifying equipment, ensuring external integrity, testing relief valves, and potential abnormal operating conditions

CHECK25: Maintain/Repair Relief Valves

Evaluates disassembling, cleaning, inspecting, repairing, and replacing internal components of a relief valve, and potential abnormal operating conditions.

CHECK26: Inspect, Test, and Calibrate Pressure Limiting Devices

Evaluates inspecting pressure limiting devices and nameplates, performing static and dynamic testing, calibrating and reinstalling pressure limiting devices, and potential abnormal operating conditions.

CHECK27: Inspect, Test, and Calibrate Pressure Switches and Transmitters

Evaluates inspecting, testing, and calibrating pressure switches and transmitters and potential abnormal operating conditions.

CHECK34: Inspection Activities for Tie-Ins, Pipe Replacements, or Other Components Connecting to an Existing Pipeline

Evaluates performing pre-installation requirements, verifying welder & NDT personnel qualifications, ensuring proper installation, and potential abnormal operating conditions.

CHECK35: Backfilling a Trench Following Maintenance

Evaluates performing backfilling operations following maintenance, determining if a tamping tool and backhoe are being used properly, how to determine amount of cover, and potential abnormal operating conditions.

CHECK37: Conduct Pressure Test

Evaluates performing a pressure test, analyzing test data, depressurizing and drying pipe, and potential abnormal operating conditions.

CHECK39: Operations of a Pipeline System (Pipeline Facility)

Evaluates pipeline startup and shutdown procedures, monitoring and maintenance of pressures, flows, and line integrity, operating valves using manual or remote methods, and potential abnormal operating conditions.

CHECK42: Performing Maintenance on Valves

Evaluates valve winterization or corrosion inhibition, lubrication, seat sealing, stem packing, actuator/operator adjustment, and potential abnormal operating conditions.

CHECK39F: Field Operations of a Pipeline System

Evaluates pipeline startup and shutdown procedures, monitoring and maintenance of pressures, flows, and line integrity, operating valves using manual or remote methods in the field, and potential abnormal operating conditions

CHECK59: Install and Monitor Vapor Barriers

Evaluates temporarily sealing a portion of pipeline with a plug or isolation tool to create a vapor barrier preventing hazardous vapors from entering a hot work area; and recognizing and reacting to abnormal operating conditions.

CHECK36.7: Perform Hot Tapping

Evaluates installing and removing hot tap assembly, operating hot tap equipment, and potential abnormal operating conditions.

CHECK36.9: Install and Remove Completion Plugs

Evaluates installing, operating, and removing completion plug assembly, relieving pressure from and draining plugging machine, and potential abnormal operating conditions.

CHECK36.5: Install Mechanical Split Sleeve Repair

Evaluates confirming surface preparation, sleeve length, and material, installing mechanical split sleeve repairs, and potential abnormal operating conditions.

CHECK36.2: Install Welded Tight Fitting Sleeves

Evaluates confirming surface preparation, sleeve type, length, and material, fitting sleeve, and potential abnormal operating conditions.

CHECK36.4: Perform Composite Wrap Sleeve Repair

Evaluates confirming surface preparation, installing composite wrap sleeve, and potential abnormal operating conditions.

CHECK22.2: Routine Walk Around Inspection

Evaluates inspecting valve security and access control, ensuring overall external integrity, and recognizing and reacting to abnormal operating conditions.

CHECK22.4: Function Test

Evaluates fully operating valves to verify proper functionality, performing routine maintenance, and recognizing and reacting to abnormal operating conditions.

CHECK23.3.3: Repair Valve Actuator/Operator, Electric

Evaluates isolating and repairing electric actuator/operator, placing back into service, and recognizing and reacting to abnormal operating conditions.

CHECK39F.4: Operate Valves Using Manual or Remote Methods

Evaluates reviewing procedures, locating valve, operating valve, confirming operation, and recognizing and reacting to abnormal operating conditions.

CHECK42.2: Perform Valve Lubrication

Evaluates injecting lubrication into valve stems and bearings and recognizing and reacting abnormal operating conditions.

CHECK42.3: Perform Valve Seat Sealing

Evaluates injecting valve sealant, checking for leaks, confirming a tight seal, and recognizing and reacting to abnormal operating conditions.

CHECK42.4: Valve Stem Packing Maintenance

Evaluates injecting packing into valve stem packing glands and recognizing and reacting to abnormal operating conditions.

CHECK42.5.1: Adjust Actuator/Operator: Electric

Evaluates setting electric actuator/operator limit and torque switches and recognizing and reacting to abnormal operating conditions.

CHECK10.2: Physical Abnormalities Inspection: Pipe Coating Damage

?Evaluates inspecting pipe for integrity issues and coating damage, identifying coating type, determining cause, location, and size of damage, and recognizing and reacting to abnormal operating conditions.

CHECK10.3: Physical Abnormalities Inspection: Corrosion

?Evaluates inspecting pipe for integrity issues, examining for, identifying cause of, and locating and measuring corrosion, and recognizing and reacting to abnormal operating conditions.

CHECK08.1: Electrical Bond Installation

Evaluates installing electrical bonds and recognizing and reacting to abnormal operating conditions.

CHECK08.2: Anode Installation

Evaluates installing galvanic and impressed current anodes in soil and water and recognizing and reacting to abnormal operating conditions.

CHECK08.3: Transformer/Rectifier Installation

Evaluates installing transformers or rectifiers and recognizing and reacting to abnormal operating conditions.

CHECK59.2: Install and Monitor a Mud Plug Vapor Barrier

Evaluates temporarily sealing a portion of pipeline with a mud plug to create a vapor barrier preventing hazardous vapors from entering a hot work area; and recognizing and reacting to abnormal operating conditions.

CHECK59.3: Install and Monitor a Dry Ice Vapor Barrier

Evaluates temporarily sealing a portion of pipeline with dry ice to create a vapor barrier preventing hazardous vapors from entering a hot work area and recognizing and reacting to abnormal operating conditions.

CHECK59.4: Install and Monitor an Inflatable, Mechanical, or Freeze Plug Vapor Barrier

Evaluates temporarily sealing a portion of pipeline with an isolation tool or freeze plug to create a vapor barrier preventing hazardous vapors from entering a hot work area and recognizing and reacting to abnormal operating conditions.

CHECK08.5: Perform Exothermic Welding

Evaluates conducting thermite welding procedures and reacting to abnormal operating conditions.

CHECK23.2: Repair Valves

Evaluates isolating, draining, and repairing valves and recognizing and reacting to abnormal operating conditions.

CHECK23.3: Repair Actuators/Operators

Evaluates isolating, repairing, and placing actuators or operators back into service and recognizing and reacting to abnormal operating conditions.

CHECK23.3.1: Repair Valve Actuator/Operator, Pneumatic

Evaluates isolating and repairing pneumatic actuators or operators and recognizing and reacting to abnormal operating conditions.

CHECK23.3.2: Repair Valve Actuator/Operator, Hydraulic

Evaluates isolating and repairing hydraulic actuator/operator, placing back into service, and recognizing and reacting to abnormal operating conditions.

CHECK26.3: Inspect, Test, and Calibrate Pressure Limiting Devices

Evaluates inspecting pressure limiting devices and nameplates, performing static and dynamic testing, calibrating and reinstalling pressure limiting devices, and recognizing and reacting to abnormal operating conditions.

CHECK26.4: Maintain and Repair Pressure Limiting Devices

Evaluates repairing or replacing components of pressure limiting devices and reacting to abnormal operating conditions.

CHECK34.2: Perform Pre-Installation Requirements (Visually Inspect Pipe and Pipe Components)

Evaluates inspecting pipe components for defects, ensuring components meet job specifications, obtaining appropriate permits, and recognizing and reacting to abnormal operating conditions.

CHECK34.4: Ensure Proper Installation to Meet Requirements (Visually Inspect that Welds Meet DOT Requirements)

Evaluates inspecting welds, completing inspection reports, and recognizing and reacting to abnormal operating conditions.

CHECK34.3: Verify Welder & NDT Personnel Qualifications (Verify Non-Destructive Weld Test)

Evaluates knowledge of conducting radiography inspections, magnetic particle testing, liquid dye penetrant testing, and ultrasonic testing and recognizing and reacting to abnormal operating conditions.

CHECK35.2: Perform Backfilling Operations Following Maintenance

Evaluates determining backfill compatibility with existing material, determining compacting properties, ensure soil and ditch are free of debris, covering pipe with backfill, and recognizing and reacting to abnormal operating conditions.

CHECK35.3: Proper Use of a Tamping Tool and Backhoe

Evaluates determining appropriate tamping tool, compacting backfill, and recognizing and reacting to abnormal operating conditions.

CHECK35.4: Determine Amount of Cover

Evaluates determining pipeline depth and whether additional protection is required and recognizing and reacting to abnormal operating conditions.

CHECK42.1: Perform Valve Body Winterization or Corrosion Inhibition

Evaluates depressurizing valves, checking valve sealing, injecting corrosion inhibitor and/or antifreeze, and recognizing and reacting to abnormal operating conditions.

CHECK42.5: Adjust Actuator/Operator

Evaluates adjusting actuator/operator, function testing of valves, and recognizing and reacting to abnormal operating conditions.

CHECK42.5.2: Adjust Actuator/Operator: Pneumatic

Evaluates adjusting pneumatic actuator/operator, function testing of valves, and recognizing and reacting to abnormal operating conditions.

CHECK42.5.3: Adjust Actuator/Operator: Hydraulic

Evaluates setting hydraulic actuator/operator, function testing of valves, and recognizing and reacting to abnormal operating conditions.

CHECK39.1: Pipeline Startup Procedures

Evaluates ensuring pipeline is purged of air, clearing downstream path for product, confirming upstream components will provide product, monitoring pressure, temperature, and flow rate, recognizing and reacting to abnormal operating conditions.

CHECK39.2: Pipeline Shutdown Procedures

Evaluates deactivating product flow equipment, ensuring valve closures, and recognizing and reacting to abnormal operating conditions.

CHECK39.3: Monitoring and Maintenance of Pressures, Flows, and Line Integrity

Evaluates monitoring pipeline system pressure, flow rate, and temperature and recognizing and reacting to abnormal operating conditions.

CHECK39.4: Operate Valves Using Manual or Remote Methods

Evaluates operating valves, confirming valve operation, and recognizing and reacting to abnormal operating conditions.

CHECK39F.1: Identify Field Operation Activities Associated with the Safe Startup of a Pipeline

Evaluates ensuring pipeline is purged of air, clearing downstream path for product, confirming upstream components will provide product, monitoring pressure, temperature, and flow rate, recognizing and reacting to abnormal operating conditions.

CHECK39F.2: Identify Field Operation Activities Associated with the Safe Shutdown of a Pipeline

Evaluates deactivating product flow equipment, ensuring valve closures, and recognizing and reacting to abnormal operating conditions.

CHECK39F.3: Monitor and Maintain Pressures, Flows, Communications, and Line Integrity

Evaluates monitoring pipeline system pressure, flow rate, and temperature and recognizing and reacting to abnormal operating conditions.

CHECK11U.1: Excavate Pipeline

Evaluates excavating an underwater pipeline by jetting and recognizing and reacting to abnormal operating conditions.

CHECK16A: Inspect Surface Conditions of Right-of-Way and Perform Leak Surveys (Aerial Patrols)

Evaluates visual inspection of right-of-way by way of low-level flying, obtaining readings with Optical Methane Detector or infrared equipment, and potential abnormal operating conditions.

CHECK96: Remove Casings

Evaluates how to remove casings safely and recognize and react to abnormal operating conditions.

CHECK01U.1: Prepare and Calibrate Test Equipment

Evaluates preparing electrodes and test anodes, calibrating test equipment, and recognizing and reacting to abnormal operating conditions.

CHECK01U.2: Take and Record Cathodic Protection Readings

Evaluates installing ground leads, taking proximity and contact readings, recording readings, and recognizing and reacting to abnormal operating conditions.

CHECK02U.1: Perform Surface Preparation for Coating Repair

Evaluates identifying coating types on underwater pipe, inspecting coating for abnormalities, and recognizing and reacting to abnormal operating conditions.

CHECK02U.2: Perform Surface Preparation for Coating Repair

Evaluates removing damaged coatings on underwater pipe, cleaning the pipe surface for repairs and recognizing and reacting to abnormal operating conditions.

CHECK02U.3: Repair Coatings and Applications

Evaluates installing wrap and epoxy repairs to coating on underwater pipe and recognizing and reacting to abnormal operating conditions.

CHECK05U.2: Determine Pipeline Depth

Evaluates determining buried and exposed depth of underwater pipe and recognizing and reacting to abnormal operating conditions.

CHECK05U.1: Locate Pipeline

Evaluates locating an underwater pipe with various methods and recognizing and reacting to abnormal operating conditions.

CHECK05U.3: Install Temporary Pipeline Marker

Evaluates installing temporary markers for underwater pipe and recoginizing and reacting to abnormal operating conditions.

CHECK06U.1: Identify Valve and Components

Evaluates recognizing valves and identifying valve components on underwater pipe and recognizing and reacting to abnormal operating conditions.

CHECK06U.2: Conduct Visual Inspection of Valve and Flanges

Evaluates exposing and visually inspecting a valve on underwater pipe and recognizing and reacting to abnormal operating conditions.

CHECK06U.3: Identify Maintenance Procedures

Evaluates ensuring valve functionality and greasing a valve on underwater pipe and recognizing and reacting to abnormal operating conditions.

CHECK06U.4: Repair Valve as Instructed

Evaluates replacing actuator/operator and grease fittings on underwater pipe and recognizing and reacting to abnormal operating conditions.

CHECK07U.1: Move In-Service Pipeline

Evaluates lifting and lowering underwater pipe and recognizing and reacting to abnormal operating conditions.

CHECK07U.2: Conduct Inspection of Pipeline for Secondary Stresses, Physical Damage, and Coating Damage

Evaluates performing a post-move inspection of underwater pipe, determining pipe depth, and recognizing and reacting to abnormal operating conditions.

CHECK08U.1: Purge Pipeline

Evaluates isolating and purging underwater pipe and recognizing and reacting to abnormal operating conditions.

CHECK08U.2: Safely Disconnect Pipeline

Evaluates disconnecting underwater pipe, cold cutting, and recognizing and reacting to abnormal operating conditions.

CHECK08U.3: Seal Disconnected Segment of Pipeline

Evaluates sealing underwater pipe, installing blind flanges or internal plugs, and recognizing and reacting to abnormal operating conditions.

CHECK08U.4: Bury Disconnected Segment of Pipeline

Evaluates lowering pipe ends with hand jetting, covering pipe ends, and recognizing and reacting to abnormal operating conditions.

CHECK09U.1: Replace or Repair Support Structures on Existing Underwater Components

Evaluates replacing or repairing and inspecting support structure components on underwater pipe and recognizing and reacting to abnormal operating conditions.

CHECK09U.2: Install Additional Underwater Support Structure Elements to Components

Evaluates installing support structures, inspecting installation, and recognizing and reacting to abnormal operating conditions.

CHECK10U.1: Conduct General Pipeline Inspection

Evaluates measuring and classifying marine growth, inspecting field joints on underwater pipe, and recognizing and reacting to abnormal operating conditions.

CHECK10U.2: Inspect Pipeline Crossings

Evaluates inspecting pipeline crossings, and recognizing and reacting to abnormal operating conditions.

CHECK10U.3: Inspect Flanged Tie-ins

Evaluates inspecting flanged tie-ins on underwater pipe and recognizing and reacting to abnormal operating conditions.

CHECK10U.4: Inspect Repairs

Evaluates inspecting coating repairs on underwater pipe and recognizing and reacting to abnormal operating conditions.

CHECK10U.5: Inspect Support Structures

Evaluates inspecting support structures and clamps on underwater pipe and recognizing and reacting to abnormal operating conditions.

CHECK11U.2: Install Mechanical Split Sleeve Repair Clamp

Evaluates installing mechanical split sleeve repair clamp, checking seals, repairing coating, providing support and cover on underwater pipeline and recognizing and reacting to abnormal operating conditions.

CHECK11U.3: Perform Basic Cutting Operations

Evaluates cutting pipe segments, cold cutting on an underwater pipeline, and recognizing and reacting to abnormal operating conditions.

CHECK11U.4: Install Mechanical Couplings

Evaluates installing mechanical couplings and performing a pressure test on an underwater pipeline and recognizing and reacting to abnormal operating conditions.

CHECK11U.5: Install Spool Piece

Evaluates installing flange end connectors and spool pieces on an underwater pipeline and recognizing and reacting to abnormal operating conditions.

CHECK13U.1: Perform Basic Launching Procedures

Evaluates installing and removing underwater pig launchers and recognizing and reacting to abnormal operating conditions.

CHECK13U.2: Perform Basic Receiving Procedures

Evaluates installing and removing underwater pig receivers and recognizing and reacting to abnormal operating conditions.

CHECK14U.1: Perform General Flange Assembly Procedures

Evaluates aligning flanges, installing bolts and ring gasket, recognizing and reacting to abnormal operating conditions.

CHECK14U.2: Perform General Flange Disassembly Procedures

Evaluates loosening and removing bolts and ring gasket, plugging or capping pipeline ends, and recognizing and reacting to abnormal operating conditions.

CHECK0451.2: Startup of a Pump in the Pipeline System at the Driver Control Panel

Evaluates verifying pumps, performing prestart inspections, manually starting up pumps at the driver control panel, and recognizing and reacting to abnormal operating conditions.

CHECK0451.3: Shutdown of a Pump in the Pipeline System at the Driver Control Panel

Evaluates verifying pumps, performing postrun inspections, manually shutting down pumps at the driver control panel, and recognizing and reacting to abnormal operating conditions.

CHECK99: Cutting on Steel Pipeline

Evaluates prepping steel pipe for cutting, using various equipment to perform the cut, inspecting the cut, and recognizing and reacting to abnormal operating conditions.

CHECK59.4.2: Install and Monitor a Mechanical Vapor Barrier

Evaluates temporarily sealing a portion of pipeline with a mechanical vapor barrier preventing hazardous vapors from entering a hot work area and recognizing and reacting to abnormal operating conditions.

CHECK59.4.3: Install and Monitor a Freeze Plug Vapor Barrier

Evaluates temporarily sealing a portion of pipeline with a freeze plug to create a vapor barrier preventing hazardous vapors from entering a hot work area and recognizing and reacting to abnormal operating conditions.

CHECK59.4.1: Install and Monitor an Inflatable Vapor Barrier

Evaluates temporarily sealing a portion of pipeline with an inflatable vapor barrier preventing hazardous vapors from entering a hot work area and recognizing and reacting to abnormal operating conditions.