Manual Section	Issue Date 12/02/12	Revision Date 01/01/24	Policy Number
7	OQ Guidano	e Document	LLCP-097

PURPOSE

In an effort to take a proactive approach to complying with the DOT Pipeline Operator Qualification Rule located in 49 CFR Parts 192 & 195, the Company has provided this guidance document which will identify our covered tasks, describe our qualification method, and identify our recordkeeping procedures.

The objective of this document is to provide our Customers with a clear understanding of the approach and process the Company uses to train and assess our personnel. We understand that this document is not required under the DOT Rule but believe strongly that in order for our Customers to meet the requirements of the rule, we must have a plan in place that will outline our intent to provide operators with a qualified workforce.

Through this OQ Guidance Document, we continue our commitment to our Customers to provide a high quality, qualified workforce and to comply with all appropriate safety regulations.

SCOPE

All LLC Companies including, Blanchard Industrial, LLC, GIS Engineering, LLC, Grand Isle Shipyard, Inc., and GWIS, Mack Steel, NuWave, Sun Industries, Valvemax, Discovery Industries, Inc.; hereafter identified as "Company".

TASK ANALYSIS

The Company has performed our task identification and analysis using the following methods:

- Reviewing API Guidance Document 1161
- Reviewing API covered task list, OQSG covered task list and various Customers' task lists
- Reviewing operations, maintenance, and safety manuals
- Implementing 4-Part Test to determine task applicability
 - o Is the task performed on a pipeline facility?
 - o Is the task an operations or maintenance task?
 - o Is the task performed as a requirement of 49 CFR Part 192 or 195?
 - O Does the task affect the operation or integrity of the pipeline facility?
- Meeting with project managers and team leaders

EVALUATION METHODS AND CRITERIA

To be qualified to perform covered tasks, a Company employee will have exhibited the ability to properly perform an assigned covered task and be able to recognize and react to an abnormal operating condition associated with the task.

We will evaluate all personnel performing covered tasks via CBT assessment that is proctored by an authorized Proctor within our Corporate Training Center. The Company is also prepared to qualify individuals using a performance-based assessment should our Customers request this option. Our Corporate Industrial Training Education Center (ITEC) is an Accredited Assessment Center for the National Center for Construction Education and Research (NCCER). ITEC also has approved Assessment Proctors through OQSG.

The Company has incorporated the industry standard of three years for our qualification interval for each covered task. Customers with more stringent qualification intervals should contact the Corporate HSE department to discuss other options.

Manual Section	Issue Date 12/02/12	Revision Date 01/01/24	Policy Number
7	OQ Guidanc	e Document	LLCP-097

Much of our Company's workforce will have transitional qualifications, which means that most employees have been performing tasks prior to August 27, 1999. All employees needing qualifications will qualify using either written, CBT and/or performance-based assessments found on the National Center for Construction Education and Research (NCCER) website and Operator Qualification Solutions Group (OQSG).

ONGOING EVALUATION

The Company will re-evaluate personnel when any of the following conditions apply:

- When the qualification interval has expired
- If there is reason to believe the individual's performance of a covered task contributed to an incident or accident
- If there is reason to believe an employee is no longer able to perform a covered task.

Subsequent Requalification

The Company has established a default interval of three (3) years for re-qualifying our personnel on all covered tasks. The default interval is the maximum interval between subsequent qualifications. The interval may be shortened if any of the above conditions occur or if other reasons necessitate the modification of the interval.

Response to an Incident or Accident

The Company will review the qualifications of any individual when the individual's performance of a covered task may have contributed to an incident or accident as defined in the regulations. We will reevaluate the individual using written, CBT and performance-based methods to determine if the individual is still knowledgeable and has the skills required to perform the covered task and to react to abnormal operating conditions.

Perception of Lost Qualification

If we believe that an individual may no longer be qualified to properly perform a covered task, the individual will be reassessed using a written assessment, CBT or performance-based evaluation. Certain reasons for re-evaluating personnel are below.

- The individual has not performed the covered task for an extended period of time (more than 2 years).
- The individual has not been able to perform his/her job functions due to extended sickness, disability, travel, etc.
- Complaints from a third party
- There are significant changes to equipment or procedures.

NON-QUALIFIED INDIVIDUALS

Our Company is committed to providing a high quality workforce to our Customers. In some cases and in accordance with the regulations, there may be instances when non-qualified individuals are utilized to perform covered tasks (on-the-job training, temporary employees assisting full-time employees, subcontractor personnel, et cetera). The Company has determined that, in these situations, a non-qualified employee will be able to perform the covered task provided the following conditions apply:

- The non-qualified individual is under the direct observation of a qualified individual.
- The qualified individual is close enough to each non-qualified individual to take immediate corrective action.

Manual Section	Issue Date 12/02/12	Revision Date 01/01/24	Policy Number
7	OQ Guidano	OQ Guidance Document	

- The ratio of qualified to unqualified individuals is low. (1 to 3)
- The qualified individual understands that he/she is directly responsible for the covered task being performed.

RECORDKEEPING

The Company will utilize a national registry for storing and maintaining database records. In addition to this, we also have an internal electronic database used for recordkeeping however ISN was requested by several Customers.

ISN will store the following information in accordance with the applicable regulations.

- The qualified individual's name and/or employee/contractor number
- The covered tasks that the individual is qualified to perform
- The date(s) of current qualification
- The qualification method

We will retain material that will support the evaluation procedure such as sample examinations, checklists and other evaluation methods and will make that information available at the request of our Customers.

Manual Section	Issue Date 12/02/12	Revision Date 01/01/24	Policy Number
7	OQ Guidanc	e Document	LLCP-097

TASK IDENTIFICATION

The Company used the OQSG and NCCER Covered Task List to identify covered tasks that our organization performs for our Customers. Below is the list from OQSG.

	OO Vorify Coward Tools List (Tourida)			
TD 1 "	Task # Task Name			
Task #				
CT0031	Inspect and Monitor Galvanic Ground Beds/Anodes			
0031.1	Define the requirements and equipment used for inspecting and monitoring galvanic ground beds and anodes			
0031.2 0031.3	Inspect and monitor galvanic ground beds and anodes Abnormal operating conditions			
	Conducting Annual Cathodic Protection Surveys			
CT01	Define and understand the function of conducting annual cathodic protection surveys			
1.2	Determine the measurement of structure-to-electrolyte potential			
1.3	Perform close interval survey			
1.4	Perform testing to detect interference			
1.5	Ensure electrical isolation from foreign structures			
1.6	Perform an inspection and electrical test of bonds			
1.7	Complete a visual atmospheric inspection			
1.8	Recognize and react to abnormal operating conditions when conducting annual cathodic protection surveys			
CT02	Maintain Test Leads			
2.1	Define and understand the function of a test lead and the equipment used to maintain it			
2.2	Correctly inspect and verify test lead continuity			
2.3	Repair or replace damaged test leads			
2.4	Explain how to recognize and react to abnormal conditions			
CT03	Inspect Cathodic Protection Rectifiers			
3.1	Obtain voltage and current output readings from rectifier and check for proper rectifier operations			
3.2	Perform cathodic protection rectifiers on/off test			
3.3	Recognize and react to abnormal operating conditions when inspecting cathodic protection rectifiers			
CT04	Cathodic Protection Rectifier Maintenance and Repair			
4.1	Troubleshoot and repair rectifiers			
4.2	Adjust a rectifier			
4.3	Recognize and react to abnormal operating conditions when troubleshooting and repairing rectifiers			
CT05	Electrically Inspect Bare Pipe			
5.1	Understand the definitions and functions of electrical inspection of bare pipe			
5.2	Conduct soil resistivity measurements			
5.3	Perform soil-to-soil potential surveys			
5.4	Recognize and react to abnormal operating conditions when electrically inspecting bare pipe			
CT06	Prevention of Atmospheric Corrosion			
6.1	Understand the function of preventing atmospheric corrosion			
6.2	Perform an inspection of coatings			
6.3	Perform surface preparation			

Manual Section	Issue Date 12/02/12	Revision Date 01/01/24	Policy Number
7	OQ Guidano	ce Document	LLCP-097

6.4	Perform an application of coatings
6.5	Recognize and properly react to abnormal operating conditions
CT06J	Electrical Inspection of Coatings
6J.1	Perform electrical inspection of coatings
6J.2	Recognize and react to abnormal operating conditions
CT07	Measure Wall Thickness of Pipe
7.1	Understand the requirements for measuring the wall thickness of pipe
7.2	Use a pit depth gauge
7.3	Use an ultrasonic thickness meter (UST)
7.4	Collect RSTRENG data
7.5	Recognize and react to abnormal operating conditions when measuring wall thickness
CT0721	Joining of Pipe: Threaded Joints
0721.1	Properly connect and tighten threaded joints
0721.2	Abnormal operating conditions
CT08	Conducting Cathodic Protection Remediation
8.1	Install electrical bonds
8.2	Install galvanic and impressed current anodes
8.3	Perform transformer/rectifier installations
8.4	Perform test station installations
8.5	Perform thermite welding procedures
8.6	Locate, monitor, and clear shorted casings
8.7	Recognize and properly react to abnormal conditions for conducting cathodic protection remediation
CT09	Monitoring for Internal Corrosion
9.1	Safely extract or insert corrosion coupons
9.2	Safely extract and insert corrosion probes
9.3	Properly collect composite or spot samples for analysis of corrosive properties
9.4	Explain how to recognize and react to abnormal conditions
CT10	Inspect Buried Pipe When Exposed
10.1	Inspect for physical damage
10.2	Inspect the condition of the pipe coating
10.3	Inspect for corrosion
10.4	Explain how to recognize and react to abnormal conditions for inspecting and examining buried pipe when exposed
CT1081	Tapping a Pipeline (Tap Diameter 2 Inches or Less)
	rapping a ripenne (rap Diameter 2 inches or Less)
1081.1	Perform hot tapping
	Perform hot tapping Abnormal operating conditions
1081.1 1081.1 CT11	Perform hot tapping Abnormal operating conditions Inspect, Test, and Calibrate Overfill Protective Devices
1081.1 1081.1 CT11 11.1	Perform hot tapping Abnormal operating conditions Inspect, Test, and Calibrate Overfill Protective Devices Define overfill protective devices and their purpose
1081.1 1081.1 CT11	Perform hot tapping Abnormal operating conditions Inspect, Test, and Calibrate Overfill Protective Devices

Manual Section	Issue Date 12/02/12	Revision Date 01/01/24	Policy Number
7	OQ Guidanc	e Document	LLCP-097

CT12	Internal Corrosion Remediation
12.1 12.2	Adjust inhibitor injection rates to achieve an acceptable industry and company standard to prevent internal corrosion Explain how to recognize and react to abnormal conditions for internal corrosion remediation
CT1291	Locate Underground Pipelines
1291.1	Locate a Pipeline
1291.2	Abnormal operating conditions
CT13	Inspect Internal Pipe Surfaces
13.1	Recognize different types of internal corrosion and their mechanisms
13.2	Possess a working knowledge of tools used for internal corrosion evaluation
13.3	Recognize and react to abnormal operating conditions when inspecting internal pipe surfaces
CT1301	Install and Maintain Pipeline Markers
1301.1	Install a line marker
1301.2	Inspect and maintain line markers and aerial line markers
1301.3	Abnormal operating conditions
CT14	Application and Repair of External Coatings
14.1	Identify and describe the different types of external coatings and how they are applied
14.2	Identify and describe the actions that must be taken in order to apply and repair external coatings
14.3	Recognize and react to abnormal operating conditions when applying and repairing external coatings
CT15	Place and Maintain Line Markers
15.1	Define and understand the placing and maintaining of line markers
15.2	Locate a pipeline
15.3	Install a line marker
15.4	Inspect and maintain line markers and aerial line markers
15.5	Recognize and react to abnormal operating conditions when placing and maintaining line markers
CT16	Inspect Surface Conditions of Rightof-Way and Perform Leak Surveys for Liquid Pipelines
16.1	Inspect surface conditions of right-of-way
16.2	Follow the company's reporting protocols
16.3	Recognize and react to abnormal operating conditions when inspecting surface conditions of right-of-way and performing leak surveys
CT16	Inspect Surface Conditions of Right-of-Way and Perform Leak Surveys for Gas Pipelines
16.1	Inspect surface conditions of right-of-way
16.2	Perform gas leakage surveys
16.3	Follow the company's reporting protocols
16.4	Recognize and react to abnormal operating conditions when inspecting surface conditions of right-of-way and
	performing leak surveys
CT17	Inspect Navigable Waterway Crossings
17.1	Define and demonstrate a working knowledge of inspecting navigable waterway crossings
17.2	Use probes, sonar and other methods to verify the location of a pipeline and determine depth of cover
17.3	Recognize and properly react to abnormal operating conditions
CT18	Inspection of Breakout Tanks

Manual Section 7	Issue Date 12/02/12	Revision Date 01/01/24	Policy Number
	OQ Guidano	e Document	LLCP-097

1	
18.1	Define and demonstrate a working knowledge of regulatory compliance and inspection requirements for breakout tanks
18.2	Inspect breakout tanks in accordance with API Standard 653
18.3	Inspect breakout tanks in accordance with API Standard 510
18.4	Inspect other breakout tanks
18.5	Recognize and react to abnormal operating conditions when inspecting breakout tanks
CT19	Provide Temporary Marking of Buried Pipeline Prior to Excavation
19.1	Define and understand the function of providing temporary marking of buried pipeline prior to excavation and the equipment used to mark it
19.2	Locate a pipeline
19.3	Install appropriate temporary markers identifying the line
19.4	Inspect and maintain temporary line markers
19.5	Explain how to recognize and react to abnormal conditions
CT20	Inspection Following Excavation Activities and Leak Survey After Blasting
20.1	Define and demonstrate knowledge of inspection procedures performed following excavation activities and leak
	survey performed after blasting
20.2	Utilize leak survey techniques
20.3	Monitor for pressure loss
20.4	Explain how to recognize and react to abnormal conditions for inspection following excavation activities and leak survey after blasting
CT21	Provide Security for Pipeline Facilities
21.1	Provide protection to the pipeline facilities
21.2	Recognize and react to abnormal operating conditions when providing security for pipeline facilities
CT22	Inspect Valves
22.1	Inspect valves
22.2	Conduct a routine walk around inspection
22.3	Conduct an external integrity inspection of the valve
22.4	Perform a function test of the valve
22.5	Recognize and react to abnormal operating conditions when inspecting valves
CT23	Repair Valves
23.1	Understand valve types and components
23.2	Repair valves
23.3	Repair actuators/operators
23.4	Recognize and react to abnormal operating conditions when repairing valves
CT24	Inspect, Test and Calibrate Relief Valves
24.1	Recognize the purpose and function of relief valves
24.2	Understand terminology associated with inspecting, testing and calibrating relief valves
24.3	Identify procedures for inspection, testing and calibration of relief valves
24.4	Recognize and react to abnormal operating conditions when inspecting, testing, and calibrating relief valves
CT25	Maintain/Repair Relief Valves
25.1	Identify critical parts associated with a relief valve
25.2	Disassemble, clean, inspect, repair, and replace internal components of a relief valve

Manual Section	Issue Date 12/02/12	Revision Date 01/01/24	Policy Number
7	OQ Guidano	ce Document	LLCP-097

25.3	Repair and calibrate the sensing device and re-assemble and reinstall the valve
25.4	Recognize and react to abnormal operating conditions when maintaining and repairing relief valves
CT26	Inspect, Test and Calibrate Pressure Limiting Devices
26.1	Recognize and locate pressure limiting devices
26.2	Identify procedures for isolation or removal of a pressure limiting device
26.3	Inspect, test, and calibrate pressure limiting devices
26.4	Repair and reinstall pressure limiting devices
26.5	Recognize and react to abnormal operating conditions when inspecting and testing and calibrating pressure limiting devices
CT27	Inspect, Test and Calibrate Pressure Switches and Transmitters
27.1	Identify types of testing methods and when they are used
27.2	Inspect, test, and calibrate pressure switches and transmitters
27.3	Recognize and react to abnormal operating conditions when inspecting, testing, and calibrating pressure switches and transmitters
CT28	Verify or Set Protection Parameters for Programmable Controllers and/or other Instrumentation Control Loops
28.1	Understand the functions of a PLC and elements that are involved
28.2	Know how to verify data set points, parameters and data location within PLC program
28.3	Perform calibration, testing, and documentation of system set points
28.4	Recognize and react to abnormal operating conditions when verifying or setting protection for programmable controllers and/or other instrumentation control loops
CT29	Moving In-Service Pipe
29.1	Determine allowable line pressure in section of pipe to be moved
29.2	Prepare for pipeline movement activities
29.3	Move in-service pipe
29.4	Recognize and respond to abnormal operating conditions
CT30	Inspect Existing Pipe Following Movement
30.1	Define and demonstrate working knowledge of inspecting an existing pipe following movement
30.2	Inspect the pipeline for secondary stresses, physical damage, corrosion and coating damage
30.3	Recognize and respond to abnormal operating conditions when inspecting existing pipe following movement
CT31	Measure Clearance from Existing Pipe to Underground Structures Installed by Excavation, Boring, Directional Drilling
31.1	Define and demonstrate working knowledge of inspecting clearances between existing pipes and underground structures as well as equipment used to perform the inspection
31.2	Assure minimum clearances are maintained and that interference and corrosion control testing are performed during the installation of foreign pipelines or structures
31.3	Recognize and react to abnormal operating conditions when measuring clearance from existing pipe to underground structures installed by excavation, boring, or directional drilling
CT32	Abandoning, Safe Disconnect, Purging, and Sealing of Pipeline Facilities

Manual Section	Issue Date 12/02/12	Revision Date 01/01/24	Policy Number
7	OQ Guidano	e Document	LLCP-097

32.1	
	Define and understand the function of and requirements for permanently or temporarily decommissioning or removing a pipeline facility from service
32.2	Safely disconnect pipeline facilities
32.3	Purge pipeline facilities
32.4	Seal a disconnected portion of pipeline
32.5	Recognize and respond to abnormal operating conditions when abandoning, safely disconnecting, purging, and sealing of pipeline facilities
CT33	Installation, or Replacement/Repair of Support Structures On Existing or New Aboveground Components
33.1	Define and demonstrate working knowledge of replacement or repair support structures on existing or new aboveground components and how to perform it
33.2	Explain activities required to install additional or revised support structure elements to existing aboveground structures
33.3	Recognize and respond to abnormal operating conditions when installing, replacing, or repairing support structures on existing or new aboveground components
CT34	Inspection Activities for Tie-ins, Pipeline Replacements, or Other Components Connecting to an Existing Pipeline
34.1	Define and demonstrate working knowledge of inspection activities for tie-ins, pipe replacements, or other components connecting to an existing pipeline
34.2	Visually inspect pipe and pipe components
34.3	Verify welder qualifications
34.4	Ensure proper installation
245	Recognize and respond to abnormal operating conditions when inspecting tie-ins, pipe replacements, or other
34.5	components connecting to an existing pipeline
34.5 CT35	
	components connecting to an existing pipeline
CT35	components connecting to an existing pipeline Backfilling a Trench Following Maintenance Define and demonstrate working knowledge about the function of backfilling a trench following pipeline
CT35 35.1	components connecting to an existing pipeline Backfilling a Trench Following Maintenance Define and demonstrate working knowledge about the function of backfilling a trench following pipeline maintenance
CT35 35.1 35.2	Components connecting to an existing pipeline Backfilling a Trench Following Maintenance Define and demonstrate working knowledge about the function of backfilling a trench following pipeline maintenance Perform backfilling operations on the pipeline following maintenance
35.1 35.2 35.3	components connecting to an existing pipeline Backfilling a Trench Following Maintenance Define and demonstrate working knowledge about the function of backfilling a trench following pipeline maintenance Perform backfilling operations on the pipeline following maintenance Determining if a tamping tool and backhoe are used properly
35.1 35.2 35.3 35.4	Components connecting to an existing pipeline Backfilling a Trench Following Maintenance Define and demonstrate working knowledge about the function of backfilling a trench following pipeline maintenance Perform backfilling operations on the pipeline following maintenance Determining if a tamping tool and backhoe are used properly Determine amount of cover required
35.1 35.2 35.3 35.4 35.5	Backfilling a Trench Following Maintenance Define and demonstrate working knowledge about the function of backfilling a trench following pipeline maintenance Perform backfilling operations on the pipeline following maintenance Determining if a tamping tool and backhoe are used properly Determine amount of cover required Explain how to recognize and react to abnormal conditions for backfilling a trench following maintenance
35.1 35.2 35.3 35.4 35.5	Backfilling a Trench Following Maintenance Define and demonstrate working knowledge about the function of backfilling a trench following pipeline maintenance Perform backfilling operations on the pipeline following maintenance Determining if a tamping tool and backhoe are used properly Determine amount of cover required Explain how to recognize and react to abnormal conditions for backfilling a trench following maintenance Performing General Pipeline Repair Activities
35.1 35.2 35.3 35.4 35.5 CT36	Backfilling a Trench Following Maintenance Define and demonstrate working knowledge about the function of backfilling a trench following pipeline maintenance Perform backfilling operations on the pipeline following maintenance Determining if a tamping tool and backhoe are used properly Determine amount of cover required Explain how to recognize and react to abnormal conditions for backfilling a trench following maintenance Performing General Pipeline Repair Activities Identify and demonstrate knowledge of procedures used for general pipeline repair activities
35.1 35.2 35.3 35.4 35.5 CT36 36.1 36.2	Backfilling a Trench Following Maintenance Define and demonstrate working knowledge about the function of backfilling a trench following pipeline maintenance Perform backfilling operations on the pipeline following maintenance Determining if a tamping tool and backhoe are used properly Determine amount of cover required Explain how to recognize and react to abnormal conditions for backfilling a trench following maintenance Performing General Pipeline Repair Activities Identify and demonstrate knowledge of procedures used for general pipeline repair activities Install tight fitting sleeves
35.1 35.2 35.3 35.4 35.5 CT36 36.1 36.2 36.3	Backfilling a Trench Following Maintenance Define and demonstrate working knowledge about the function of backfilling a trench following pipeline maintenance Perform backfilling operations on the pipeline following maintenance Determining if a tamping tool and backhoe are used properly Determine amount of cover required Explain how to recognize and react to abnormal conditions for backfilling a trench following maintenance Performing General Pipeline Repair Activities Identify and demonstrate knowledge of procedures used for general pipeline repair activities Install tight fitting sleeves Install oversleeves
35.1 35.2 35.3 35.4 35.5 CT36 36.1 36.2 36.3 36.4	Backfilling a Trench Following Maintenance Define and demonstrate working knowledge about the function of backfilling a trench following pipeline maintenance Perform backfilling operations on the pipeline following maintenance Determining if a tamping tool and backhoe are used properly Determine amount of cover required Explain how to recognize and react to abnormal conditions for backfilling a trench following maintenance Performing General Pipeline Repair Activities Identify and demonstrate knowledge of procedures used for general pipeline repair activities Install tight fitting sleeves Install oversleeves Install composite wrap sleeves
35.1 35.2 35.3 35.4 35.5 CT36 36.1 36.2 36.3 36.4 36.5	components connecting to an existing pipeline Backfilling a Trench Following Maintenance Define and demonstrate working knowledge about the function of backfilling a trench following pipeline maintenance Perform backfilling operations on the pipeline following maintenance Determining if a tamping tool and backhoe are used properly Determine amount of cover required Explain how to recognize and react to abnormal conditions for backfilling a trench following maintenance Performing General Pipeline Repair Activities Identify and demonstrate knowledge of procedures used for general pipeline repair activities Install tight fitting sleeves Install composite wrap sleeves Install mechanical split repair sleeves

Manual Section 7	OQ Guidano		Policy Number LLCP-097
Manual Section	Issue Date 12/02/12	Revision Date 01/01/24	— Policy Number

36.9	Install completion plugs
36.10	Identify and properly respond to abnormal operating conditions for general pipeline repair activities
CT37	Conduct Pressure Test
37.1	Define and understand the function of a pressure test and the equipment used to perform it
37.2	Conduct a pressure test and record the results
37.3	Recognize and react to abnormal operation conditions when conducting a pressure test
CT38	Maintenance Welding on Pipelines
38.1	Supervise, inspect and/or perform maintenance welding on pipelines
38.2	Repair arc burns
38.3	Repair defective welds other than welds containing cracks
38.4	Repair of cover pass on a weld containing a defect other than a crack
38.5	Repair butt welds containing cracks
38.6	Repair previously repaired areas
38.7	Replace welds or cylinders of pipe
38.8	Recognize and react to abnormal operation conditions when performing maintenance welding on pipelines
CT39	Operations of a Pipeline System
39.1	Identify the activities associated with the safe start-up of a pipeline
39.2	Identify the steps necessary for the safe shutdown of a pipeline
39.3	Demonstrate knowledge of monitoring and maintenance of pressures, flows, communications, and line integrity
39.4	Identify the necessary steps for the manual or remote opening and or closing of a valve or other equipment
39.5	Recognize abnormal operating conditions for the task and identify proper responses
CT40	Computational Pipeline Monitoring (CPM) Leak Detection
40.1	Understand functions of CPM equipment
40.2	Test, calibrate, repair, replace, and maintain CPM equipment
40.3	Verify that the leak detection system meets design specifications
40.4	Explain how to recognize and react to abnormal conditions to perform CPM leak detection techniques that assist in maintaining the integrity of a pipeline system
C/D 41	Operate Pressure Relieving Devices for Launching and Receiving Facilities
CT41 41.1	Identify the names and operation of the valves used on a launching facility
41.1	Explain the sequence of events needed to isolate, relieve pressure and drain fluids from the launcher barrel
41.3	Understand the procedures involved with launching a pig
41.4	Identify the names and operations of the valves used on a receiving facility
41.5	Understand the procedures involved with receiving a pig
41.6	Explain the sequence of events needed to isolate, relieve pressure and drain fluids from the receiver barrel
41.7	Recognize and react to abnormal operating conditions during launching and receiving activities
CT42	Performing Maintenance on Valves
42.1	Identify components and maintenance of valves
42.2	Perform valve maintenance
42.3	Perform actuator/operator maintenance
42.4	Recognize and react to abnormal operating conditions
CT43	Perform Flange Bolting Procedures

Manual Section	Issue Date 12/02/12	Revision Date 01/01/24	Policy Number
7	OQ Guidano	e Document	LLCP-097

7	OQ Guidanc	e Document	LLCP-097
Manual Section	Issue Date 12/02/12	Revision Date 01/01/24	Policy Number

52.5	Explain how to recognize and react to abnormal conditions for operating odorant equipment
CT54	Gas Detection and Alarm System Maintenance and Performance Testing
54.1	Identify and describe gas detection devices and their alarm systems
54.2	Calibrate, test, and maintain gas detection systems
54.3	Recognize and react to abnormal operating conditions while calibrating, testing, and maintaining gas detection and
	alarm systems
CT55	Isolation of a Gas Compressor Unit
55.1	Isolate a gas compressor unit
55.2	Prepare an isolated compressor unit for start-up
55.3	Recognize and react to abnormal operating conditions when isolating a gas compressor unit
CT56	Compressor Station Inspection and Testing of Remote Control Shutdown Devices
56.1	Identify and describe remote control shutdown devices and associated terms
56.2	Test remote control shutdown devices
56.3	Recognize and properly respond to abnormal conditions that may be encountered
CT57	Startup, Shutdown and Operation of a Turbine Driven Gas Compressor Unit
57.1	Understand the operation of a turbine driven gas compressor unit
57.2	Start-up a turbine driven gas compressor unit
57.3	Shutdown a turbine driven gas compressor unit
57.4	Operation of a turbine driven gas compressor unit
57.5	Recognize and react to abnormal operating conditions when performing start-up, shutdown, and operation of a
	turbine driven gas compressor unit
CT58	Startup, Shutdown and Operation of an Engine Driven Gas Compressor Unit
58.1	Understand the operation of an engine driven gas compressor unit
58.2	Start-up an engine driven gas compressor unit
58.3	Shutdown of an engine driven gas compressor unit
58.4	Operation of an engine driven gas compressor unit
58.5	Recognize and react to abnormal operation conditions when performing the start-up, shutdown, and operation of an
	engine driven gas compressor unit
CT60	General Abnormal Operating Conditions
60.1	Define and understand an abnormal operating condition
60.2	Recognize and respond to the malfunction or failure of pipeline components
60.3	Recognize and respond to physical damage to the pipeline system
60.4	Recognize and respond to the unexpected activation of a safety device
60.5	Recognize and respond to abnormal facility conditions
60.6	Prevention of accidental Ignition
CT61	Documentation, Reporting, & OQ Recordkeeping
61.1	Identify and maintain required documentation
61.2	Identify safety related conditions that require reporting
61.3	Identify operator qualifications (OQ) record keeping requirements
CT62	Inspecting and Remediating Pipeline Hazard Protection

Manual Section	Issue Date 12/02/12	Revision Date 01/01/24	Policy Number
7	OQ Guidanc	e Document	LLCP-097

62.1	Identify types of pipeline hazards
62.2	Identify and inspect protective physical barriers
62.3	Recognize and react to abnormal operating conditions
CT65	Damage Prevention During Excavation of In-Service Pipe by or on Behalf of an Operator
65.1	Prepare for excavation activities
65.1 65.2	Prepare for excavation activities Perform inspection activities during excavation
	•