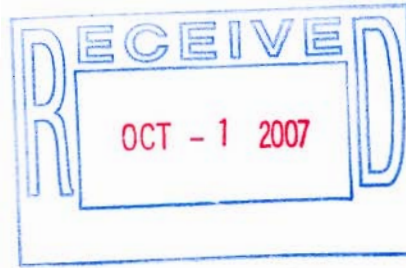


September 28, 2007

Mr. R. M. Seeley
Director-Southwest Region
U. S. Department of Transportation
PHMSA
8701 South Gessner, Suite 1100
Houston, Texas 77074



Re: CPF No. CPF 4-2007-1011M

Dear Mr. Seeley:

This letter is written in response to the above-referenced notice of amendment received from your office. CenterPoint Energy Gas Transmission (CEGT) has thoroughly reviewed all items identified in your correspondence. The following is a list of items that your correspondence indicated that CenterPoint Energy Gas Transmission needed to address along with our actions that were taken:

1. §192.805 Qualification program

Each operator shall have and follow a written qualification program. The program shall include provisions to:

(b) Ensure through evaluation that individuals performing covered tasks are qualified;

CenterPoint Energy's OQ plan needs requirements to:

- Ensure effective communication of operator-specific requirements for task performance when qualified contractor individuals speak and comprehend languages other than English.

Action: As per your letter, this item was corrected by adding Section 12.0 to the plan as follows:

12.0 Communication for Individuals Who Do Not Speak or Comprehend English

If the Company uses non-English speaking individuals to perform covered tasks, a qualified individual who can communicate with non-English speaking individuals must be on the job location at all times to fulfill the Company's span-of-control requirements.

Contractors shall ensure qualified individuals who can communicate with the Contractor's non-English speaking employees are on the job location at all times and in compliance with the Company's span-of-control requirements.

- Describe what steps are to be taken after an individual does not successfully complete a performance on-the-job evaluation.

Action: As per your letter, this item was corrected by adding the following segment to Exhibit II – Test Validation and Quality Assurance/Quality Control Procedures:

Performance Evaluation Validation – Overview

Key components of the validation and QA/QC process:

- Only trained and qualified Observers/Evaluators can administer performance evaluations.
- Ensure performance evaluation integrity.
- Individuals who fail a performance evaluation are required to complete further training as prescribed by the Observers/Evaluators prior to retesting.
- Ensure employees who fail a performance evaluation or who do not hold a valid qualification **DO NOT** perform DOT covered tasks without a qualified person present.
- The testing party will schedule retesting dates upon completion of the appropriate training.
- There will be a **minimum** seven day waiting period before the next test can occur.

2. §192.805 Qualification program

Each operator shall have and follow a written qualification program. The program shall include provisions to:

(e) Allow individuals that are not qualified pursuant to this subpart to perform a covered task if directed and observed by an individual that is qualified.

CenterPoint Energy's OQ plan needs requirements to ensure the ability of qualified individuals to effectively communicate direction of task activities and reactions to AOCs to non-qualified individuals who speak and comprehend languages other than English.

Action: As per your letter, item 2 was corrected by adding Section 12.0 to the plan as follows:

12.0 Communication for Individuals Who Do Not Speak or Comprehend English

If the Company uses non-English speaking individuals to perform covered tasks, a qualified individual who can communicate with non-English speaking individuals must be on the job location at all times to fulfill the Company's span-of-control requirements.

Contractors shall ensure qualified individuals who can communicate with the Contractor's non-English speaking employees are on the job location at all times and in compliance with the Company's span-of-control requirements.

3. §192.805 Qualification program

Each operator shall have and follow a written qualification program. The program shall include provisions to:

(f) Communicate changes that affect covered tasks to individuals performing those covered tasks

CenterPoint Energy's OQ plan needs requirements to utilize incident investigations, employee feedback programs, or other approaches to ensure that the AOCs identified and used in evaluating individuals are representative of those that could reasonably be anticipated during performance of covered tasks.

Action: As per your letter, item 3 was corrected by adding the following to Section 6.0.6 Changes to the Plan and Communication of Those Changes:

U. S. Department of Transportation
September 28, 2007
Page 3

Additionally, near misses, incidents, or abnormal operating conditions that prompt Root Cause Analysis or similar processes of investigation may trigger changes that affect covered tasks or this Plan. Employees and contractors participate in these types of investigations. Their input and feedback regarding near misses, incidents, or abnormal operating conditions are evaluated and considered to determine if changes are needed to covered tasks or this Plan.

In addition, I ask that this response letter be acknowledged as notification of significant change in accordance with §192.805 Qualification program (i) and CenterPoint Energy Gas Transmission's Operator Qualification Plan - Section 9.0 Notification of Significant Changes to Operator Qualification Plan. CEGT no longer operates liquid pipelines or facilities and has removed all CFR 49 195 liquid covered tasks from its plan.

Sincerely,



Johnny Cavitt, Manager of DOT Compliance
for Walter Ferguson
Division Sr. VP & COO Pipeline Services

CC: Debbie Ristig
Scott Mundy

Frank Antoine
Johnny Cavitt



**OPERATOR QUALIFICATION PLAN &
COVERED TASK LIST
49 CFR 192 Subpart N**

Effective April 27, 2001

Revision Number: 7

Revision Date: September 17, 2007

Table of Contents

1.0	PURPOSE [§192.809 GENERAL]	3
2.0	SCOPE [§192.801 SCOPE]	3
3.0	COVERED TASKS	3
4.0	DEFINITIONS [§192.803]	4
5.0	REFERENCES	6
6.0	QUALIFICATION PROGRAM [§192.805]	6
6.0.1	EVALUATION PROCESS	6
6.0.2	EVALUATION METHODS	6
6.0.3	PROVISION FOR NON-QUALIFIED INDIVIDUALS TO PERFORM COVERED TASKS	7
6.0.4	EVALUATE AN INDIVIDUAL IF THE COMPANY HAS REASON TO BELIEVE THE INDIVIDUAL’S PERFORMANCE OF A COVERED TASK CONTRIBUTED TO AN INCIDENT AS DEFINED IN PART 191.	8
6.0.5	EVALUATE AN INDIVIDUAL IF THE COMPANY HAS REASON TO BELIEVE THE INDIVIDUAL IS NO LONGER QUALIFIED.....	8
6.0.6	CHANGES TO THE PLAN AND COMMUNICATION OF THOSE CHANGES.	8
6.0.7	IDENTIFY COVERED TASKS AND THE INTERVALS AT WHICH EVALUATIONS OF INDIVIDUALS ARE REQUIRED.....	9
6.0.8	RE-EVALUATION METHODS.....	10
6.0.9	INTERNAL AND EXTERNAL AUDITS FOR COMPLIANCE	10
7.0	RECORDKEEPING [§192.807]	10
8.0	QUALIFIED CONTRACTORS AND OTHER THIRD PARTIES	11
9.0	NOTIFICATION OF SIGNIFICANT CHANGES TO OPERATOR QUALIFICATION PLAN	12
10.0	MUTUAL ACCEPTANCE OF AFFILIATE OPERATOR QUALIFICATION	12
11.0	MERGERS AND ACQUISITIONS	12
12.0	COMMUNICATION FOR INDIVIDUALS WHO DO NOT SPEAK OR COMPREHEND ENGLISH	
	EXHIBIT I - COVERED TASK LIST	14
	EXHIBIT II - EWEBOQ AND PERFORMANCE EVALUATION TEST VALIDATION AND QUALITY ASSURANCE/QUALITY CONTROL PROCEDURE	65
	EXHIBIT III – WELDER QUALIFICATION CHECKLIST - FORM PS 8088	66

1.0 Purpose [§192.809 General]

This Operator Qualification Plan outlines the practices CenterPoint Energy Gas Transmission Company, CenterPoint Energy Field Services, Mississippi River Transmission Corporation, Illinois Gas Transmission Company, and Pine Pipeline, hereinafter “Company”, will use to comply with the Federal Department of Transportation, Office of Pipeline Safety Regulation 49 CFR 192 Subpart N – Qualification of Pipeline Personnel. The DOT regulation requires operators to ensure that all individuals who operate and maintain pipeline facilities are qualified to perform covered tasks and shall address their ability to recognize and react appropriately to abnormal operating conditions. The intent of this Operator Qualification Plan is to ensure a qualified workforce and to reduce the probability and consequence of incidents caused by human error. The following sections outline the Company’s requirements for qualifying, through evaluation, individuals performing covered tasks.

This program was effective April 27, 2001. The Company achieved compliance with this regulation on or before October 28, 2002.

2.0 Scope [§192.801]

The personnel affected by this qualification program include any individual who performs a covered task. This Operator Qualification Plan applies to all personnel (both field personnel and technical staff) and any other individuals who perform covered tasks on the pipeline system. The Operator Qualification Plan applies to personnel performing covered tasks regardless of whether they are full-time, part-time temporary individuals, contractors, sub-contractors, or any other entity performing covered tasks on behalf of the Company. This qualification rule does not replace existing qualification requirements in 49 CFR Part 192 such as the welding re-qualification requirements.

The Company’s DOT Oversight Committee shall review this Operator Qualification Plan as regulatory conditions and operational changes are made. The Company’s Operator Qualification Plan is subject to continual review and enhancements at intervals not to exceed five years.

3.0 Covered Tasks

Using tasks the Company identified while conducting a task analysis for our Skill-based Pay Program (PASK), the four-part test was used to determine whether a task constitutes a covered task. For the purposes of this Plan, a covered task is an activity, identified by the Company that meets all four criteria below:

1. Is performed on a pipeline facility
2. Is an operations or maintenance task
3. Is performed as a requirement of 49 CFR Parts 192

4. Affects the operations or integrity of the pipeline

Operations and maintenance tasks required by Parts 192, which do not meet all four criteria above, are not considered covered tasks.

Activities that have been identified as covered tasks are listed in Exhibit I of this Plan.

4.0 Definitions [§192.803]

The following definitions are included in the Operator Qualification Plan for reference:

Abandoned means permanently removed from service.

Abnormal operating condition is a condition identified by the Operator that may indicate a malfunction of a component or deviation from normal operations that may indicate an operating condition that could exceed design limits or result in a hazard(s) to persons, property, or the environment.

Evaluation means a process, established and documented, to determine an individual's ability to perform a covered task by any of the following methods of evaluation:

- Written examination (including electronic versions of exams)
- Oral examination
- Work performance history review
- Observation during (a) performance on-the-job, (b) on-the-job training, and (c) simulations, or
- Other forms of assessment such as accepted industry certification programs or equivalent (National Association of Corrosion Engineers (NACE), American Society for Non-Destructive Testing (ASNT), Welding Qualification Programs, etc.).

Incident (As defined in §191.3) is:

- An event that involves a release of gas from a pipeline or of liquefied natural gas or gas from a LNG facility and
 - A death, or personal injury necessitating in-patient hospitalization; or
 - Estimated property damage including cost of gas lost, of the operator or others, or both, of \$50,000.00 or more.
- An event that results in an emergency shutdown of a LNG facility.
- An event that is significant, in the judgment of the operator, even though it did not meet the criteria of paragraphs (1) or (2).

Individual means a person who, on behalf of the operator, performs one or more covered tasks on a pipeline facility operated by the operator. This includes contractors, subcontractors, and operator employees.

Initial qualification means qualification, at any time, of individuals not performing a covered task on a regular basis.

Integrity of the pipeline system refers to the pipeline's ability to operate safely and to withstand stresses imposed during operations.

Maintenance means the act of maintaining or the state of being maintained; the work of keeping something in proper condition; upkeep.

New Construction is the act of building a pipeline facility, or expanding an existing pipeline facility (as in looping a pipeline segment, which may also be done to meet increased load requirements or to enhance reliability of the system) in order to provide new service to a customer(s) or in order to meet increased demand.

Non-covered tasks are activities that do not meet the four-part test as described under the definition of covered tasks.

Operate is the starting, stopping and/or monitoring a device or system.

Operations and Maintenance (O&M) Task means activities performed by an individual, or group of individuals, (1) to perform a function on a pipeline facility, or (2) to provide upkeep of a pipeline facility. This includes in-kind replacement of an existing section of pipe necessitated by severe corrosion, where the capacity of the pipe segments is maintained and service is expanded. It also includes maintenance and repair tasks performed on the right-of-way or within the confines of a "pipeline facility", as defined. This would include ordinary repairs to a pipeline, including replacement of one or more pipe joints or segments that have been severely damaged by threats such as corrosion or third party damage. Tasks performed away from a "pipeline facility", as at a vendor shop (such as rebuilding/refurbishment of meters and regulators, rebuilding of compressors or valves, etc.) are not considered to be O&M tasks for the purpose of the Operator Qualification Rule. However, removal and replacement of such equipment is considered an O&M task. The tie-in of a new pipeline or segment to an existing pipeline is an O&M task; any task carried out on that segment of pipeline thereafter is also an O&M task.

Operator means a person or entity that engages in the transportation of gas.

Pipeline means all parts of those physical facilities through which gas moves in transportation, including pipe, valves and other appurtenances (collectively or individually referred to as components in this Plan) attached to pipe; compressor units; metering stations; regulator stations; delivery stations (town border and inter-connects); holders and fabricated assemblies.

Pipeline facilities means new and existing pipeline, rights-of-way, and any equipment, facility, or building used in the transportation of gas or in the treatment of gas during the course of transportation.

Qualified individual means an individual has been evaluated and can:

- perform assigned covered task(s); and
- recognize and react to Abnormal Operating Conditions

Subsequent qualification means evaluation of an individual's qualification, after transitional or initial qualification.

Transitional qualification means qualification completed during the period between the effective date of the rule and the three-year compliance date, of individuals who have been performing a covered task on a regular basis prior to the effective date of the rule. The Company may qualify Individuals transitionally using any acceptable method identified in the rule.

5.0 References

49 CFR Part 191, Part 192 and Appendixes

6.0 Qualification Program [§192.805]

6.0.1 Evaluation Process

Individuals shall be evaluated on each covered task(s) they are expected to perform. The evaluation methods used must ensure the individuals possess the knowledge, skills and abilities necessary to perform the covered task(s) applicable to the job. The Company will qualify Company employees (both field and technical staff) on identified covered tasks and in recognizing and reacting to generic and task specific abnormal operating conditions. Company employees will qualify by satisfactorily completing Company's skills training program requirements or eWebOQ web-based training program(s), or both. After October 28, 2002, all re-qualification evaluations will be administered using Company's eWebOQ web-based training program. eWebOQ is the recognized recordkeeping system for Company Operator Qualification records for Company employees. See Exhibit II for Company's "eWebOQ Quality Assurance/Quality Control" Procedure.

6.0.2 Evaluation Methods

The evaluation of Company employee's qualifications is an objective, consistent process that documents the ability to perform the covered task. This includes the Company employee's ability to recognize and react to abnormal operating conditions (generic and task specific) the Company reasonably anticipates a qualified employee may encounter while performing a covered task(s).

As the Company implements the Operator Qualification Plan, individuals will be qualified using one or more of the evaluation methods shown below for "transitional", "initial" and "subsequent" qualification:

Evaluation Method	Transitional Qualification	Initial Qualification	Subsequent Qualification
Written Exam	YES	YES	YES
Oral Exam	YES	YES	YES
Work Performance History Review	NO	NO	NO
Performance On-the-Job	YES	YES	YES
On-the-Job Training	YES	YES	YES
Simulation	YES	YES	YES
Other Method Approved by Company (eWebOQ)	YES	YES	YES

NOTE:

- **Other evaluation methods must be approved by Shreveport DOT Compliance prior to using.**
- **Responses to written test questions will be validated using the eWebOQ process.**
- **The Company does not use work performance history reviews as an evaluation method.**

6.0.3 Provision for Non-Qualified Individuals to Perform Covered Tasks

Non-qualified individuals will not be permitted to perform covered tasks unless a qualified individual is directing and observing the non-qualified individual(s) performing the task. Individuals who have not been qualified on specific covered task(s) may perform covered task(s) while under the direct observation of a qualified individual. Some covered tasks do not have a Span-of-Control – Direct Observation (welding, plastic pipe fusion, etc.), meaning that all individuals performing the covered task must be qualified. Span-of-Control – Direct Observation is outlined in Exhibit I for each covered task. The qualified Individuals must be close enough to take immediate control in the event of an Abnormal Operating Condition or emergency at the site of the O&M activity so corrective actions can be implemented when (and if) necessary. The qualified individuals shall be responsible for the proper performance of the activity.

The intent of this provision is to ensure that non-qualified individuals performing covered tasks are subject to close control by a qualified individual. The Span-of-Control – Direct Observation shall not exceed that listed for each covered task for non-qualified individuals working under the direct observation and control of a qualified individual. Further, the Span-of-Control is based on ideal operating conditions. When adverse condition(s) exist at the job site, i.e., dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the

Span-of-Control shall be less than the number identified for a covered task(s) to account for these adverse factors.

6.0.4 Evaluate an Individual if the Company Has Reason to Believe the Individual's Performance of a Covered Task Contributed to an Incident as Defined in Part 191.

Upon notification of an incident, the Region Director will determine if the action of a qualified individual cannot be discounted as contributing to the incident. Notification of an incident may also come to the attention of the Region Director as the result of an incident investigation following a Root Cause Analysis or similar processes. On investigation of the incident, if the action of the individual cannot be discounted, the Region Director will immediately suspend that Company employee's qualification on that specific covered task(s) and will notify Shreveport DOT Compliance of the suspension. Suspension of the Company employee's qualification for that task(s) will continue until the individual has been trained, re-evaluated and successfully completed the qualification requirements for the task or is exonerated. Service Area Leaders are responsible for seeing that the individual is re-evaluated.

6.0.5 Evaluate an Individual if the Company Has Reason to Believe the Individual is No Longer Qualified.

The Region Director will suspend an individual's qualification for a covered task for reasons including but not limited to unsatisfactory performance of a covered task or if Company has reason to believe the individual can no longer satisfactorily perform the covered task. This knowledge may also come to the attention of the Region Director as the result of an incident investigation following a Root Cause Analysis or similar processes. Suspension will continue until that individual is exonerated by Company or trained and re-evaluated.

6.0.6 Changes to the Plan and Communication of Those Changes.

Changes that affect this Plan shall be communicated to both Company employees and contractors performing under the direction of this Plan. . Informal notification will be made as soon as possible (oral, telephone, etc.). Official notification will be made through written documents and/or e-mail to Company employees and contractors affected by the change.

Changes may be minimal or substantial. In either case, Shreveport DOT Compliance will evaluate changes to determine if they are significant. When changes to covered task/s occur, Shreveport DOT Compliance will determine whether additional qualification requirements are needed and whether individuals performing the covered task/s should be evaluated again. All applicable training and evaluation materials will be updated as needed to reflect the changes and individuals re-trained and re-evaluated as appropriate.

Changes that may need to be communicated may include:

- Modification to Company policies and procedures
- Revisions in the skill training program
- Revisions in the eWebOQ training program
- Changes in Federal or State regulations
- Use of new equipment and/or technology
- New information from equipment or product manufacturers
- Recognition of additional abnormal operating conditions

Additionally, near misses, incidents, or abnormal operating conditions that prompt Root Cause Analysis or similar processes of investigation may trigger changes that affect covered tasks or this Plan. Employees and contractors participate in these types of investigations. Their input and feedback regarding near misses, incidents, or abnormal operating conditions are evaluated and considered to determine if changes are needed to covered tasks or this Plan.

6.0.7 Identify Covered Tasks and the Intervals at Which Evaluations of Individuals are Required.

Evaluation frequencies have been determined by rating the importance, difficulty and frequency of each covered task. Company Subject Matter Experts (SMEs), using a Difficulty, Importance and Frequency (DIF) analysis survey, determined the three ratings for each covered task. First, using a scale of one to five, an importance score was identified for each covered task based on the consequences of performing the task incorrectly. Next, a difficulty score was identified for each covered task based on the complexity of both the knowledge and motor skills required. Finally, a frequency was determined based on actual operating experience.

After the DIF survey data was collected, an analysis was conducted to determine the projected re-evaluation interval appropriate for each individual covered task. The DIF Analysis Survey Results developed for each identified covered task calculated a numeric average rating for each variable (Difficulty, Importance and Frequency). A Decision Tree Analysis diagram was employed to move the DIF data, for each covered task, through the analytical process using the following parameters:

Step 1 – Segmented into Importance

- Important > 2.5 average points
- Not Important < 2.5 average points

Step 2 – Segmented into Difficulty

- Very Difficult > 4.5 average points
- Moderately Difficult 2.5 to < 4.5 average points
- Not Difficult < 2.5 average points

Step 3 – Segmented into Frequency

- Very Frequent > 3.5 average points
- Moderate Frequency 2.4 to < 3.5 average points
- Not Frequent < 2.4 average points

This process is widely used in industry and easy to visualize and use. Re-evaluation frequencies for each covered task are identified in Exhibit I – Covered Task List.

6.0.8 Re-evaluation Methods

Company SMEs developed the evaluation methods listed in Exhibit I for each covered task. SMEs reviewed the DIF survey data and with their knowledge of each task determined the appropriate evaluation methods. SMEs determined that successful completion of specific eWebOQ courses and written exams and/or performance evaluations were sufficient and adequate evidence of qualification. Covered tasks with a regulatory basis for re-evaluation were not considered in the SMEs review of covered tasks.

6.0.9 Internal and External Audits for Compliance

Periodically, not to exceed five years, the Company will audit its internal processes to ensure compliance with this Operator Qualification Plan.

Additionally, periodic audits of contractors will ensure contractor compliance with the Operator Qualification Plan.

7.0 Recordkeeping [§192.807 & §195.507]

The Company will maintain qualification records for its individuals that demonstrate compliance.

Qualification records shall include:

- Identification of each qualified individual by name and employee number
- Identification of covered tasks the individual is qualified to perform
- Date(s) of current qualification(s), and
- Qualification methods(s)

The qualification record(s) shall be maintained for each employee's current qualifications while the employee is performing the covered task(s). When employee is evaluated for subsequent qualification, the prior qualification records shall be maintained for a period of five years.

When an employee stops performing a covered task (i.e., the employee retires, is promoted, etc.) the employee's qualification records shall be retained for a period of five years. The Company will maintain these records in either a paper or electronic format.

8.0 Qualified Contractors and Other Third Parties

Contractors shall provide Company with documentation certifying that individual(s) (contractor employee or subcontractor working for Contractor) who perform covered tasks have been evaluated and are currently qualified to perform the specified Company covered tasks, based on the re-qualification frequency and methods of qualification identified in Exhibit I. Contractor shall submit qualification records and/or other methods identified in Exhibit I. It is recommended that contractors utilize eWebOQ user report titled, "CenterPoint Energy Covered Tasks a User is Qualified For" (at the job site or prior to beginning work).

Contractor (includes subcontractors hired by Contractor) must use eWebOQ to qualify their personnel performing or supervising covered tasks on Company's pipeline facilities unless otherwise approved by Company's Shreveport DOT Compliance.

Contractor's qualification program must include provisions as follows:

- Each qualified individual must have a valid Government Issue photo identification card.
- All written exams must be proctored.
- Proctor must validate an individual's identity before an individual is allowed to proceed with taking an evaluation.

Span-of-Control – Direct Observation – Individual contractor employees who have not been qualified on covered tasks (non-qualified contractor employees) may perform covered tasks while under the direct observation and in view of a qualified individual. The qualified individual must be close enough to take immediate control of the activity so corrective actions can be implemented when (and if) necessary. The qualified individual shall be responsible for the proper performance of the activity. The number of non-qualified individuals that may be observed at one time by a qualified individual shall not exceed that listed for each respective Company covered task outlined in Exhibit I. The Span-of-Control is based on ideal operating conditions. When adverse condition(s) exist at the job site, i.e., dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number identified for a covered task(s) to account for these adverse factors.

For Contractor employees assigned to a Company job, the Contractors will notify Company of events that caused the suspension or revocation of a contractor employee's covered task qualification. The notification is to be given to Company even when the suspension or revocation actions were taken while the contractor was working for another Operator.

Upon notification of an incident, the Project Manager or responsible inspector will determine if the action of a contractor's qualified employee cannot be discounted as contributing to the incident. If the action of the contractor's employee cannot be discounted, the Project Manager or responsible inspector will immediately notify the contractor that the individual's qualification for that specific covered task is to be immediately suspended.

The contractor will notify Shreveport DOT Compliance of the suspension. The suspension of the individual's qualification for that task will continue until the individual has been trained and re-evaluated or exonerated. Contractor will notify Shreveport DOT Compliance when re-evaluation has been completed.

Shreveport DOT Compliance will advise the contractor when the Company has lifted the suspension and that the individual can resume performance of the covered task. Company reserves the right to determine the method used for re-evaluation.

An individual's qualification for a covered task will be suspended for reasons including but not limited to unsatisfactory performance of a covered task if Company or Contractor believes the individual can no longer satisfactorily perform the covered task. The suspension will continue until that individual is trained and re-qualified by Contractor. Company reserves the right to determine the method used for re-qualification.

Whenever Company initiates changes in procedures or qualification requirements under this Plan, Shreveport DOT Compliance shall communicate those changes in writing or via e-mail to Contractor. Contractor has responsibility to manage these changes, and must re-qualify his personnel for the affected covered tasks, if required by Company.

Contractor must maintain the following qualification records:

- Identification of qualified individuals
- Identification of covered tasks the Individual is qualified to perform
- Dates of current qualification(s)
- Qualification methods used

Documentation supporting the current qualification will be accessible in either paper copy or electronic format and must be readily accessible for auditing by Company. When a contractor employee stops performing a covered task (i.e., the employee retires, is promoted, etc.) the employee's qualification records shall be retained for a period of five years.

The Company will periodically inspect contractor(s) for their compliance with the Operator Qualification Plan. Contractors refusing to allow an inspection of their compliance or who are found not to be in compliance with the Company's Operator Qualification Plan will be suspended from performing covered tasks for the Company. This suspension on a contractor will be lifted only by order of the Compliance Director and only after the contractor complies with the Operator Qualification Plan.

9.0 Regulatory Notification of Significant Changes to Operator Qualification Plan

All written Plan changes and modifications will be reviewed by Shreveport DOT Compliance. If deemed necessary, notification of significant written plan changes will be reported to OPS and the appropriate regulatory agency or agencies.

10.0 Mutual Acceptance of Affiliate Operator Qualification

The Company and its affiliates will accept each other's operator qualification evaluation methods to allow for the performance of covered tasks on Company facilities when needed (e.g. valve operation, odorant injection, odorant concentration testing, and in emergencies).

11.0 Mergers and Acquisitions

The Company will perform due diligence in considering operator qualification associated with mergers and acquisitions and establish appropriate plans.

12.0 Communication for Individuals Who Do Not Speak or Comprehend English

If the Company uses non-English speaking individuals to perform covered tasks, a qualified individual who can communicate with non-English speaking individuals must be on the job location at all times to fulfill the Company's span-of-control requirements.

Contractors shall ensure qualified individuals who can communicate with the Contractor's non-English speaking employees are on the job location at all times and in compliance with the Company's span-of-control requirements.

EXHIBIT I - Covered Task List

CenterPoint Energy Covered task(s) and Qualification Criteria						
Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
CT-1	<p>Criteria</p> <p>Qualification Criteria include:</p> <ul style="list-style-type: none"> ◆ Perform Pipe-to-Soil potentials (-0.85mv surveys and 100mv surveys) ◆ Compare baseline Pipe-to-soil readings with current readings ◆ Identify low potentials considering IR Drops ◆ Demonstrate the correct use and placement of a Half-cell electrode and voltmeter and/or multi-meter. ◆ Document and submit corrosion report <p>Recognize and React to Abnormal</p>	<p>Corrosion – (Electrical Surveys [P-to-S], Insulators testing, Test Casings)</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors.</p>	Corrosion/Pipeline 3 CR/PL3-004	<p>508 Interference (AC/DC)</p> <p>505 Cathodic Protection Criteria</p> <p>509 Pipe-to-Soil Surveys</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Corrosion Control, Book 4, Procedures:</p> <ul style="list-style-type: none"> ◆ 110 ◆ 105 ◆ 115 ◆ 215 ◆ 220 ◆ 310 ◆ 330 ◆ 325 	<p>Natural Gas: 192.463</p> <p>5 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	Operating Conditions					
CT-2	<p>External Corrosion Monitoring</p> <p>Qualification Criteria include:</p> <p>Monitor Cathodically and Non-Cathodically Protected Pipelines. Perform Pipe-to-soil potential readings.</p> <p>Identify data to be collected during an annual survey</p> <p>Perform leak detection to determine areas of active corrosion</p> <p>Take readings on both sides of an insulator</p> <p>Net protective current using side drains</p> <p>Identify methods used to contact pipe, test leads, etc.</p> <p>Demonstrate the correct placement and use of a half-cell electrode.</p> <p>Documentation of</p>	<p>Corrosion – (Electrical Surveys [P-to-S], Insulators testing, Test Casings)</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	<p>Corrosion/Pipeline 3 CR/PL3-005</p>	<p>508 Interference (AC/DC)</p> <p>505 Cathodic Protection Criteria</p> <p>509 Pipe-to-Soil Surveys</p> <p>506 Electrical Insulator Inspection & Testing Casings</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Corrosion Control, Book 4, Procedure: ♦ 110</p>	<p>Natural Gas: 192.457 192.465 [a][e] 192.467 [d] Appendix D</p> <p>5 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>inspections</p> <p>Recognize and React to Abnormal Operating Conditions</p>					
CT-3	<p>Pipe-to-Soil Troubleshooting</p> <p>Qualification Criteria include:</p> <p>Perform a pipe-to-soil survey and demonstrate the steps taken when reading does not meet DOT 192 Appendix D criteria.</p> <p>Check whether cathodic protection units have failed.</p> <p>Determine the length of affected area by taking readings at five-foot intervals upstream and downstream until readings meet criteria.</p> <p>Describe when a Close Interval Survey should be performed.</p> <p>Perform analysis of new survey data to ensure readings are not out of limits.</p> <p>Recognize and React to Abnormal</p>	<p>Corrosion – (Electrical Surveys [P-to-S], Insulators testing, Test Casings)</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	<p>Corrosion/Pipeline 3 CR/PL3-006</p>	<p>508 Interference (AC/DC)</p> <p>505 Cathodic Protection Criteria</p> <p>509 Pipe-to-Soil Surveys</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Corrosion Control, Book 4, Procedure:</p> <p>◆ 110</p>	<p>Natural Gas: 192.465 [d]</p> <p>5 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	Operating Conditions					
CT-4	<p>Bi-Monthly Rectifier Inspection</p> <p>Qualification Criteria include:</p> <ul style="list-style-type: none"> ◆ Demonstrate how to take Rectifier readings and explain the purpose of the readings. ◆ Measure DC volts. ◆ Measure DC amps. ◆ Make rectifier adjustments. ◆ Document bi-monthly rectifier inspection. ◆ Recognize and React to Abnormal Operating Conditions 	<p>Corrosion – Rectifier Inspection</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	Corrosion/Pipeline 3 CR/PL3-008	<p>501 Cathodic Protection: Troubleshooting</p> <p>502 Cathodic Protection: Rectifier Inspection</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Corrosion Control, Book 4, Procedures:</p> <ul style="list-style-type: none"> ◆ 215 ◆ 220 ◆ 320 ◆ 325 	<p>Natural Gas: 192.465 [b]</p> <p>5 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
CT-5	<p>Install Test Stations</p> <p>Qualification Criteria include:</p> <p>Remove coating from section of pipeline, file to bright steel with edge of file and dry surface thoroughly</p> <p>Thermo-weld a #12 wire to a steel pipe, using shot no larger than 15 P. Strip 3" of insulation from wire and crimp on copper sleeve 3 times. Apply spark.</p> <p>Patch coating at connections to pipeline with suitable material and overlap existing coating.</p> <p>Install a foreign test station.</p> <p>Install a casing test station.</p> <p>Install a test station at an insulated gasket.</p> <p>This test station should be read on both sides and</p>	<p>Corrosion – Construction & Maintenance, Install Test Stations, Install Anodes</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	Corrosion/Pipeline 3 CR/PL3-010	<p>415 Installation of Anodes</p> <p>501 Cathodic Protection: Troubleshooting</p> <p>502 Cathodic Protection: Rectifier Inspection</p> <p>504 Installation of Test Stations</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Corrosion Control, Book 4, Procedures:</p> <ul style="list-style-type: none"> ◆ 105 ◆ 110 ◆ 310 ◆ 330 ◆ 325 ◆ 440 	<p>Natural Gas: 192.471 192.469</p> <p>5 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>accommodate a bonding shunt for current measurement.</p> <p>Recognize and React to Abnormal Operating Conditions</p>					
CT-6	<p>Install Sacrificial Anodes</p> <p>Qualification Criteria include:</p> <ul style="list-style-type: none"> ◆ Install a sacrificial anode. ◆ Use a multi meter to check the before and after pipe-to-soil readings when installing a galvanic anode. ◆ Document anode installation. ◆ Recognize and React to Abnormal Operating Conditions 	<p>Corrosion – Construction & Maintenance, Install Test Stations, Install Anodes</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	Corrosion/Pipeline 3 CR/PL3 - 012	<p>415 Installation of Anodes</p> <p>504 Installation of Test Stations</p> <p>508 Interference (AC/DC)</p> <p>509 Pipe-to-Soil Surveys</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Corrosion Control, Book 4, Procedures:</p> <ul style="list-style-type: none"> ◆ 315 ◆ 440 	<p>Natural Gas: 192.463</p> <p>5 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
CT-7	<p>Atmospheric Corrosion Inspection</p> <p>Qualification Criteria include:</p> <p>Perform an atmospheric corrosion inspection.</p> <p>Describe how often above-grade pipe must be checked for atmospheric corrosion.</p> <p>State how above-grade insulated pipe should be checked.</p> <p>Differentiate between the different levels of atmospheric corrosion pitting, i.e. Minor, Moderate and Severe.</p> <p>Determine remaining strength of a pitted pipe segment.</p> <p>Document atmospheric corrosion inspection</p>	<p>Corrosion – Atmospheric Corrosion & Painting</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	<p>Corrosion/Pipeline 3 CR/PL3-013</p> <p>Measurement 3 MEAS3-294</p> <p>Electronics 3 ELEC3-135</p> <p>Equipment Operations 3 EQ/OP3-255</p> <p>Storage 3 STOR3-521</p> <p>Mechanical 3 MECH3-406</p>	<p>500 Atmospheric Corrosion</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Corrosion Control, Book 4, Procedures:</p> <ul style="list-style-type: none"> ◆ 210 ◆ 500 	<p>Natural Gas: 192.481 192.485[c]</p> <p>5 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>according to Center Point Energy's procedures.</p> <p>Abnormal Operating Conditions</p>					
CT-8	<p>Application of Below ground Coating & Inspection</p> <p>Qualification Criteria include:</p> <ul style="list-style-type: none"> ◆ Set voltage on the Holiday detector according to manufacturer's instruction. ◆ Make repairs to the coating if a holiday is found. ◆ Demonstrate the proper application of coating to a short section of piping. ◆ Demonstrate the proper selection and application of a coating system to a pipeline. ◆ Demonstrate the proper 	<p>Corrosion – Underground Pipe Coating</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	Corrosion/Pipeline 3 CR/PL3-014	<p>503 Protective Coating</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Operations & Maintenance, Book 1, Procedure:</p> <ul style="list-style-type: none"> ◆ 504 <p>CenterPoint Energy Manual of Construction Standards, Book 2, Procedures:</p> <ul style="list-style-type: none"> ◆ 20 ◆ 51 ◆ 53 <p>CenterPoint Energy Manual of Engineering Standards, Book 3, Procedures:</p> <ul style="list-style-type: none"> ◆ 200 ◆ 201 ◆ 202 	<p>Natural Gas: 192.483</p> <p>5 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>application of a coating to a transition area.</p> <p>◆ Document below ground pipe coating according to Company procedures.</p> <p>Abnormal Operating Conditions</p>					
CT-9	<p>Above Ground Paints and Primers</p> <p>Qualification Criteria include:</p> <p>Visual inspection of above ground coating. Look for pinholes, bubbles, wrinkles and skips.</p> <p>Measure for wet film thickness. Take a wet film thickness with a thin card with notches at different wet thickness levels.</p> <p>Inspect painted surfaces with a holiday detector (Jeep). Pass an electrostatic or low voltage electrode over the coating surface for holiday</p>	<p>Corrosion – Atmospheric Corrosion & Painting</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	Corrosion/Pipeline 3 CR/PL3-016	<p>500 Atmospheric Corrosion</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Operations & Maintenance, Book 1, Procedure:</p> <p>◆ 506</p> <p>CenterPoint Energy Manual of Construction Specifications, Book 2, Procedure:</p> <p>◆ 51</p> <p>CenterPoint Energy Manual of Safety Standards, Book 6, Procedure:</p> <p>◆ 21</p> <p>CenterPoint Energy Manual of</p>	<p>Natural Gas:</p> <p>192.461[a] [1] [2], [c],[d]</p> <p>5 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>“jeeping”.</p> <p>Measure Dry Film thickness.</p> <p>Document pipe coating(s) according to CenterPoint Energy’s procedures.</p> <p>Recognize and React to Abnormal Operating Conditions</p>				Environmental Standards-Waste Management, Book 7A, Procedure: ◆ 526	
CT-10	<p>Internal Corrosion Monitoring</p> <p>Qualification Criteria include:</p> <p>Obtain a liquid sample from a pipeline for internal corrosion analysis. Collect samples for analysis as often as you deem necessary if liquids are present in the pipeline. Collect samples from drips, separators, pig traps or knockout bottles. Use a clean plastic bottle. Correctly label the sample container.</p> <p>Perform internal and adjacent pipe inspection when</p>	<p>Corrosion – Internal Corrosion Monitoring, Chemical Injection, Pipe Inspection</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to</p>	<p>Corrosion/Pipeline 3 CR/PL3-017</p> <p>Measurement 3 MEAS3-295</p> <p>Storage 3 STOR3-522</p> <p>Equipment Operations 3 EQ/OP3-256</p> <p>Electronics 3 ELEC3-137</p> <p>Mechanical 3 MECH3-405</p>	<p>507 Internal Corrosion Monitoring</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Corrosion Control, Book 4, Procedure: ◆ 600</p> <p>CenterPoint Energy Manual of Safety Standards, Book 6, Procedure: ◆ 2</p>	<p>Natural Gas: 192.475 192.477</p> <p>5 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>pipe is removed from service, coupons removed at tap site or pipe is opened for any reason (valve removal, meter tube cleaning, etc.)</p> <p>Document internal corrosion monitoring according to CenterPoint Energy's procedures.</p> <p>Recognize and React to Abnormal Operating Conditions</p>	account for these adverse factors				
CT-11	<p>Fault Interference</p> <p>Qualification Criteria include:</p> <ul style="list-style-type: none"> ◆ Describe examples of the three distinct sources and the detrimental effects of interference currents, including: Dynamic (variable DC current), Static (steady state DC current) AC induced current. 	<p>Corrosion – (Electrical Surveys [P-to-S], Insulators testing, Test Casings</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc.</p>	Corrosion/Pipeline 3 CR/PL3-018	<p>415 Installation of Anodes</p> <p>504 Installation of Test Stations</p> <p>506 Electrical Insulator Inspection & Testing Casings</p> <p>508 Interference (AC/DC)</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Corrosion Control, Book 4, Procedure:</p> <ul style="list-style-type: none"> ◆ 440 	<p>Natural Gas: 192.467[f] 192.473</p> <p>3 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<ul style="list-style-type: none"> ◆ Explain methods of determining or finding interference sources. ◆ Sketch static stray current from foreign structures detailing the current flow by cathodic protection systems. ◆ Document according to CenterPoint Energy's procedures. ◆ Abnormal Operating Conditions. 	the Span-of-Control shall be less than the number listed to account for these adverse factors				
CT-12	<p>Leak Survey, Classification & Documentation</p> <p>Qualification Criteria include:</p> <ul style="list-style-type: none"> ◆ Demonstrate the use of strip maps and/or alignment sheets in determining required intervals for leakage surveys. 	<p>Corrosion – Leak Survey, Patrol (Aerial, walking, etc.), Exposed Pipe Monitoring</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist</p>	Corrosion/Pipeline 3 CR/PL3-020	<p>200 Leak Survey & Leak Classification</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Operating & Maintenance, Book 1, Procedures:</p> <ul style="list-style-type: none"> ◆ 220 ◆ 240 	<p>Natural Gas:</p> <p>192.615[a] [1] 192.706</p> <p>5 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<ul style="list-style-type: none"> ◆ Perform actual leakage survey using leak detection equipment. ◆ Classify a leak and explain the actions that would be required. ◆ Identify the information to be asked of an individual reporting a leak on Company' pipeline system. ◆ Document according to CenterPoint Energy's procedures. ◆ Recognize and React to Abnormal Operating Conditions 	at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors				
CT-13	<p>Population Density Change & Line Patrol</p> <p>Qualification Criteria include:</p> <p>Explain each DOT's 192.5 class</p>	<p>Corrosion – Leak Survey, Patrol (Aerial, walking, etc.), Exposed Pipe Monitoring</p> <p>Span-of-Control 5</p> <p>NOTE: The</p>	Corrosion/Pipeline 3 CR/PL3-021	<p>201 Population Density Change & Pipeline Patrol</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related</p>	<p>CenterPoint Energy Manual of Operating & Maintenance, Book 1, Procedures:</p> <ul style="list-style-type: none"> ◆ 204 ◆ 205 ◆ 215 	<p>Natural Gas: 192.705</p> <p>5 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>locations and frequency of patrol. Class 1 (#of homes or buildings), Class 2, Class 3 and Class 4</p> <p>Explain population density surveys by describing the "sliding mile".</p> <p>Perform line patrols for your location. Reference CenterPoint Energy's O&M Manual Procedure 215, DOT 192.705.</p> <p>Perform survey and record-keeping requirements and determine the impact of population density changes on class locations.</p> <p>Recognize and React to Abnormal Operating Conditions</p>	Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors		Conditions	<ul style="list-style-type: none"> ◆ 218 ◆ 244 	
CT-14	<p>Valve Maintenance</p> <p>Qualification Criteria include:</p>	<p>Pipeline – Valve Repair & Maintenance</p> <p>Span-of-Control 5</p>	<p>Corrosion/Pipeline 3 CR/PL3-022</p> <p>Mechanical 3 MECH3-408</p> <p>Mechanical 4</p>	<p>400 Valve Operators</p> <p>401 Valve Maintenance</p> <p>101 Recognize and</p>	CenterPoint Energy Manual of Operating & Maintenance, Book 1, Procedure:	<p>Natural Gas: 192.745</p> <p>5 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<ul style="list-style-type: none"> ◆ Perform a valve inspection including full operation and lubrication of the valve, and atmospheric corrosion check. ◆ Identify and perform any additional maintenance required. ◆ Ensure the valve is returned to the original position. ◆ Perform inspection of the valve operator and identify: The type of hydraulic fluid required. Fluid levels checked. ◆ Explain what "Key" (critical during an emergency) valves are. ◆ Recognize and React to Abnormal Operating Conditions 	<p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	<p>MECH4-420</p> <p>Measurement 3 MEAS3-293</p> <p>Storage 3 STOR3-523</p> <p>Equipment Operations 3 EQ/OP3-257</p> <p>Electronics 3 ELEC3-139</p>	<p>React to Abnormal Operating Conditions & Safety Related Conditions</p>	<ul style="list-style-type: none"> ◆ 232 	

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
CT-15	<p>Pipeline Repairs Using Bolt-on Leak Clamps</p> <p>Qualification Criteria include:</p> <p>Explain when a bolt-on clamp may be considered a permanent repair for a leak.</p> <p>-Non-corrosion leak on dresser coupled pipeline.</p> <p>-Corrosion leak on a pipeline.</p> <p>Explain what is meant by "temporary repair".</p> <p>Using a combustible gas indicator (CGI), monitor the excavation for hazards.</p> <p>Install a bolt-on leak clamp. Show the different types of leak clamps and explain the pressure ratings of each.</p> <p>Capture fluids leaking from the pipeline. Dispose of contaminated soil.</p> <p>Recognize and React to Abnormal Operating Conditions</p>	<p>Pipeline – Leak Repair, Pipeline blow down, Purging</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	Corrosion/Pipeline 3 CR/PL3-025	<p>409 Pipeline Leak Repair</p> <p>411 Pipeline Purging</p> <p>416 Pipeline Shutdown & Startup Planning</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p> <p>105 Use, Care & Calibration of Combustible Gas Instruments</p>	<p>CenterPoint Energy Manual of Operating & Maintenance, Book 1, Procedures:</p> <ul style="list-style-type: none"> ◆ 226 ◆ 225 	<p>Natural Gas:</p> <p>192.717[b] [2]</p> <p>3 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
CT-16	<p>Regulator/ Relief Valve Inspection (Spring and Pilot Operated Relief Valves, Monitor Over-Pressure Protection and Control Valves Regulators)</p> <p>Qualification Criteria include: Demonstrate how to properly inspect and test regulators, relief valves and control valves.</p> <p>Identify the inspection and testing frequency.</p> <p>Determine the direction of gas flow.</p> <p>Physically identify and inspect control lines.</p> <p>Confirm that vent lines are properly routed, terminated, protected and secured.</p> <p>Confirm the set pressure is correct & adjust if necessary.</p> <p>Inspect for</p>	<p>Measurement – Relief Valve, Regulator & Control valve Testing</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	<p>Corrosion/Pipeline 3 CR/PL3-026</p> <p>Mechanical 3 MECH3-407</p> <p>Measurement 3 MEAS3-286 MEAS3-287 MEAS3-288 MEAS3-289 MEAS4-326</p> <p>Storage 3 STOR3-525</p> <p>Equipment Operations 3 ERQ/OP3-259</p> <p>Electronics 3 ELEC3-138</p>	<p>402 Inspecting & Testing Relief Valves, Regulators and Control Valves</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Measurement Standards, Book 5, Procedures:</p> <ul style="list-style-type: none"> ◆ 1140 ◆ 1150 	<p>Natural Gas: 192.731 192.739 192.743</p> <p>3 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>atmospheric corrosion, leaks or damage.</p> <p>Recognize and React to Abnormal Operating Conditions</p>					
CT-17	<p>Pipe Locating (Damage Prevention)</p> <p>Qualification Criteria include:</p> <p>Explain the operating principles of the pipe locator and the methods of marking pipeline.</p> <p>Explain the information necessary to receive and document a locate request.</p> <p>Receive and log a pipeline locate request.</p> <p>Provide response to locate request and document.</p> <p>Locate pipeline segment relative to locate request and determine its depth using pipe/cable locator.</p> <p>Mark the pipeline</p>	<p>Pipeline – Pipeline Locating, Marking & Damage Prevention, Installing Signs</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	<p>Corrosion/Pipeline 3 CR/PL3-027</p>	<p>300 Damage Prevention: Locating and Marking Pipeline Facilities</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Operating & Maintenance, Book 1, Procedure:</p> <ul style="list-style-type: none"> ◆ 208 and 209 <p>Book 2, Specification 6</p>	<p>Natural Gas: 192.614[c][4] [5][6]</p> <p>5 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>segment relative to a locate request.</p> <p>Recognize and React to Abnormal Operating Conditions</p>					
CT-18	<p>Exposed Pipe Inspection & Monitoring</p> <p>Qualification Criteria include: Report an exposed segment of pipe and document the location.</p> <p>Inspect exposed pipe for damage to the pipe/coating.</p> <p>Inspect the exposed pipe circumferentially and longitudinally beyond the exposed portion.</p> <p>Determine if remedial action is required for pipe segment. Measure pit depth, if needed.</p> <p>Clean exposed area and apply coating as needed.</p> <p>Explain how exposed pipe is</p>	<p>Corrosion – Leak Survey, Patrol (Aerial, walking, etc.), Exposed Pipe Monitoring</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	<p>Corrosion/Pipeline 3 CR/PL3-028</p>	<p>500 Atmospheric Corrosion</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Operating & Maintenance, Book 1, Procedures:</p> <ul style="list-style-type: none"> ◆ 218 ◆ 502 ◆ 504 ◆ 506 ◆ 510 <p>CenterPoint Energy Manual of Corrosion Control, Book 4, Procedure:</p> <ul style="list-style-type: none"> ◆ 210 	<p>Natural Gas: 192.459 192.479 192.481</p> <p>5 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>monitored as part of a pipeline patrol.</p> <p>Explain the intervals at which exposed pipe should be monitored.</p> <p>Explain what is meant by remedial action</p> <p>Recognize and React to Abnormal Operating Conditions</p>					
CT-19	<p>External & Internal Pipe Inspection</p> <p>Qualification Criteria include:</p> <p>When a pipeline is opened, for any reason, an internal inspection must be performed. Company is required to fill out a pipe inspection report to document the inspection.</p> <p>Perform an internal (when the pipeline is parted, or the inside is exposed) and external inspection.</p> <p>Perform an external inspection of the pipe and coating</p>	<p>Corrosion – Pipe Coating Inspection, Internal Corrosion Monitoring</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	<p>Corrosion/Pipeline 3 CR/PL3-029</p>	<p>503 Protective Coatings</p> <p>507 Internal Corrosion Monitoring</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Operating & Maintenance, Book 1, Procedures:</p> <ul style="list-style-type: none"> ◆ 502 ◆ 504 ◆ 506 ◆ 508 ◆ 510 <p>CenterPoint Energy Manual of Corrosion Control, Book 4, Procedure:</p> <ul style="list-style-type: none"> ◆ 210 	<p>Natural Gas: 192.459</p> <p>5 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<ul style="list-style-type: none"> - identify defects in the pipe. - identify disbondment of the external pipe coating. <p>Describe the information required to be checked during an inspection – both internal and external.</p> <p>How long are we required to keep this record?</p> <p>Recognize & react to AOC's: -Coating Damage -Internal Corrosion -External Corrosion</p>					
CT-20	<p>Installation of Signs</p> <p>Qualification Criteria include:</p> <p>Explain where pipeline marker signs shall be placed in relation to the pipeline and where signs are to be located along the pipeline right-of-way.</p> <p>Explain the types of signs that are to be used and how signs are installed.</p>	<p>Pipeline – Pipeline Locating, Marking & Damage Prevention, Installing Signs</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified</p>	Corrosion/Pipeline 3 CR/PL3-031	<p>201 Population Density Change & Pipeline Patrol</p> <p>300 Damage Prevention: Locating & Marking Pipeline Facilities</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	CenterPoint Energy Manual of Operating & Maintenance, Book 1, Procedure: ♦ 224	<p>Natural Gas: 192.707</p> <p>5 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>Install or replace pipeline marker signs including (Carsonite, Aerial Road crossing & Waterway marker signs).</p> <p>Inspect the signs for:</p> <p>a] Correct company name. b] Correct telephone number. c] Condition of the sign. d] Visibility of sign. e] Mounting (fence posts and other supports). f] High Voltage underground buried cable.</p> <p>Recognize and React to Abnormal Operating Conditions</p>	<p>individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>				
CT-21	<p>Installation and Use of Pipeline Evacuators</p> <p>Qualification Criteria include:</p> <p>Plan and coordinate in detail the correct installation, operation and safety considerations for a</p>	<p>Pipeline – Leak Repair, Pipeline blow down, Purging</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e.</p>	Corrosion/Pipeline 4 CR/PL4-050	<p>411 Pipeline Purging</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Construction Specification, Book 2, Procedure:</p> <p>◆ 106</p> <p>CenterPoint Energy Engineering Standards,</p>	<p>Natural Gas: 192.629</p> <p>3 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>pipeline evacuator.</p> <p>Install evacuators.</p> <p>Identify the material and equipment required to install an evacuator.</p> <p>Identify and discuss the conditions that require the use of an evacuator.</p> <p>Identify where the location stores evacuator and describe the basic components.</p> <p>Describe the affects of the evacuator used on the welding process.</p> <p>Recognize and React to Abnormal Operating Conditions</p>	<p>dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>			<p>Book 3, Drawings: A-ST-PS-24 A-ST-PS-25 A-ST-PS-26 A-ST-PS-27</p> <p>CenterPoint Energy Manual of Safety Standards, Book 6, Procedure: ◆ 5</p>	
CT-22	<p>Test Casings</p> <p>Qualification Criteria include:</p> <p>Demonstrate and explain the reasons for and the method of excavating a shorted casing in</p>	<p>Corrosion – Electrical Surveys [P-to-S], Insulators testing, Test Casings</p> <p>Span-of-Control 5</p>	Corrosion/Pipeline 4 CR/PL4-055	<p>506 Electrical Insulator Inspection & Testing Casings</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Corrosion Control, Book 4, Procedures: ◆ 415 ◆ 417</p>	<p>Natural Gas: 192.467[c] 5 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>an attempt to clear it. Address electrolytic shorts versus metallic shorts.</p> <p>Perform the tests and explain the steps taken:</p> <p>a) Pipe-to-soil potentials and casing-to-soil potentials.</p> <p>b) Battery reverse current.</p> <p>c) Complete shorted casing form.</p> <p>d) Evaluate the casing to determine if metallic short exists.</p> <p>e) Describe when a casing needs to be tested.</p> <p>Take readings and explain how to determine which end of casing is shorted.</p> <p>Recognize and React to Abnormal Operating Conditions</p>	<p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>				
CT-23	<p>Inspect Insulators</p> <p>Qualification Criteria include:</p>	<p>Corrosion – Electrical Surveys [P-to-S], Insulators testing,</p>	<p>Corrosion/Pipeline 4 CR/PL4-056</p>	<p>506 Electrical Insulator Inspection & Testing Casings</p> <p>101 Recognize and</p>	<p>CenterPoint Energy Manual of Corrosion Control, Book</p>	<p>Natural Gas: 192.467</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>Explain how pipe-to-soil readings can assist in evaluating the condition of an insulator.</p> <p>Demonstrate the use of the insulator tester/short detector. a) Insulators provide electrical isolation and their dielectric strength must be maintained. NOTE: Tinker-Razor makes testers that check insulators locally and not the overall current resistance.</p> <p>Take readings on both sides of an insulator to discover whether or not the insulator is blocking DC current. (The same reading on both sides does not conclusively prove a short. Cathodic protection current from separate systems may be on both sides of the insulator. Additional tests should be run.)</p> <p>Recognize and React to Abnormal Operating Conditions</p>	<p>Test Casings</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>		React to Abnormal Operating Conditions & Safety Related Conditions	4, Procedure: ◆ 410	5 Years

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
CT-24	<p>Interference - Adjust a Critical Bonds</p> <p>Qualification Criteria include:</p> <p>Adjust a critical bond.</p> <p>Measure current flow and determine direction of flow.</p> <p>Demonstrate how to run interference surveys where stray current is suspected including the following survey types:</p> <ul style="list-style-type: none"> ◆ Close interval. ◆ Interrupted survey. <p>At the test site demonstrate the configuration and method attachment for a critical bond test station.</p> <p>Install a critical bond test station.</p> <p>Recognize and React to Abnormal Operating Conditions</p>	<p>Corrosion – Electrical Surveys [P-to-S], Insulators testing, Test Casings</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	Corrosion/Pipeline 5 CR/PL5-063	<p>508 Interference (AC/DC)</p> <p>505 Cathodic Protection Criteria</p> <p>509 Pipe-to-Soil Surveys</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Corrosion Control, Book 4, Procedure:</p> <ul style="list-style-type: none"> ◆ 440 	<p>Natural Gas: 192.465[c]</p> <p>3 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
CT-26	<p>Blowdown, Purge, and Return Pipeline to Service</p> <p>Qualification Criteria include: Prepare and conduct a pre-job meeting complete with gas-handling write-up for reporting to Gas Control.</p> <p>Demonstrate the methods used in pipeline and/or station (TBS, city gate) blowdown, purge and pressurization including:</p> <ul style="list-style-type: none"> • Valve locations & station numbers to be used to isolate, blowdown and purge. • Customer valves involved and what must be done to these valves. <p>Estimate the length of time to safely perform the blowdown.</p> <p>Determine the amount of blowdown gas lost.</p> <p>Determine the correct min. or max. pressure & time to ensure all</p>	<p>Pipeline – Leak Repair, Pipeline blow down, Purging</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	<p>Corrosion/Pipeline 3 CR/PL3-035</p> <p>Corrosion/Pipeline 5 CR/PL5-073</p> <p>Electronics 3 ELEC3-136</p> <p>Mechanical 3 MECH3-409</p> <p>Mechanical 5A MECH5A-502</p> <p>Measurement 3 MEAS3-296</p> <p>Storage 3 STOR3-524</p> <p>Equipment Operations 3 EQ/OP3-258</p>	<p>411 Pipeline Purging</p> <p>416 Pipeline Shutdown and Startup Planning</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Operations & Maintenance, Book 1, Procedures:</p> <ul style="list-style-type: none"> ◆ 210 ◆ 234 ◆ 238 ◆ 600 <p>CenterPoint Energy Manual of Construction Specifications, Book 2, Procedure:</p> <ul style="list-style-type: none"> ◆ 106 <p>CenterPoint Energy Manual of Engineering Standards, Book 3, Procedure:</p> <ul style="list-style-type: none"> ◆ 302 	<p>Natural Gas: 192.605[b] [5] 192.629 192.751</p> <p>3 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	air is removed. Abnormal Operating Conditions					
CT-27	<p>Safe Operations of Hot Tapping Equipment</p> <p>Qualification Criteria include: Identify & describe the pressure and temperature limitations of the hot tap machine.</p> <p>Identify & describe the safety requirements of your tap and stopping machine.</p> <p>Identify the following on the hot tap machine: -Maximum boring bar travel. -Feed rate. -Different cutters. -Different adapters. -Tools used. -Pilot to cutter combinations.</p> <p>Perform a hot tap and stop in the field or simulate in the shop.</p> <p>Perform a dye penetrate test of welds.</p>	<p>Pipeline – Hot Tapping</p> <p>Span-of-Control - All individuals performing hot tapping must be qualified.</p>	<p>Corrosion/Pipeline 5 CR/PL5-075</p> <p>Welding 4 CO/WE4-096</p>	<p>412 Hot tapping and Stopping</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Construction Specifications, Book 2, Procedure: ◆ 104</p>	<p>Natural Gas: 192.503 192.627</p> <p>3 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	Describe pressure testing for replacement line pipe and leak surveys prior to returning to service. Abnormal Operating Conditions					
CT-28	<p>Pressure Testing Pipeline Facilities</p> <p>Qualification Criteria include:</p> <p>Secure required Environmental permits.</p> <p>Determine the SMYS of a pipeline test section material, or equipment and set minimum and maximum test pressures allowed.</p> <p>Set up and use deadweight equipment appropriate to the site and perform basic operation.</p> <p>Test other gauges used for air and hydrostatic testing. a) Test gauge calibration.</p> <p>Describe or perform hydrostatic test procedures for pipelines, facilities</p>	<p>Pipeline – Pressure Testing</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	Corrosion/Pipeline 5 CR/PL5-076	<p>403 Pressure Testing Steel & Plastic Pipelines</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Operations & Maintenance, Book 1, Procedures:</p> <ul style="list-style-type: none"> ◆ 240 ◆ 600 <p>CenterPoint Energy Manual of Construction Specifications, Book 2, Procedure:</p> <ul style="list-style-type: none"> ◆ 47 <p>CenterPoint Energy Manual of Engineering Standards, Book 3, Procedures:</p> <ul style="list-style-type: none"> ◆ 301 ◆ 303 	<p>Natural Gas: 192.503 192.505 192.507 192.509 192.513</p> <p>3 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>and hot taps.</p> <p>Demonstrate how to update the DOT record keeping system to reflect the new MAOP/test pressure.</p> <p>Recognize and React to Abnormal Operating Conditions</p>					
CT-29	<p>Pipeline Failure Investigation</p> <p>Qualification Criteria include:</p> <ul style="list-style-type: none"> ◆ Perform a failure investigation of a simulated pipeline failure using CenterPoint Energy procedures. ◆ List all Company personnel that need to be notified of a major failure or event. ◆ Document the failure investigation. 	<p>Pipeline – Pipeline Locating, Marking & Damage Prevention</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these</p>	Corrosion/Pipeline 5 CR/PL5-079	<p>206 Leak Investigation</p> <p>207 Investigating Pipeline Failures</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Operations & Maintenance, Book 1, Procedures:</p> <ul style="list-style-type: none"> ◆ 104 ◆ 236 	<p>Natural Gas: 192.617</p> <p>3 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<ul style="list-style-type: none"> ◆ Identify how to protect evidence at the accident site. ◆ Recognize and React to Abnormal Operating Conditions 	adverse factors				
CT-30	<p>CenterPoint Energy Welder Qualification Test</p> <p>Qualification Criteria include: ASME IX - 1. Successfully perform a 12.750" OD x .281 wt API 5LX-60 in a fixed position 45° from horizontal downhill travel. 2. Successfully perform a 2.375" OD x .218 wt Grade B in a fixed position at 45° degree from horizontal, with a downhill travel. 3. Successfully perform a 2.375" OD x .344 wt Grade B in fixed</p>	<p>Pipeline–Welding</p> <p>Span-of-Control - All welders must be qualified.</p>	Welding 4 CO/WE4-087	<p>CenterPoint Energy -Welders Test</p> <p>Welder Qualification Candidate must complete Company Form PS-8088 during all destructive tests (see Exhibit III). PS-8088 covers Abnormal Operating Conditions and Weld defects and repair procedures.</p>	<p>CenterPoint Energy Manual of Construction Standards, Book 2, Procedures:</p> <ul style="list-style-type: none"> ◆ 102 ◆ 200 	<p>Natural Gas: 192.225 192.227 192.229 192.231 192.233 192.235</p> <p><u>Welding Test - 6 Months</u></p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>position at 45⁰ degree from horizontal with uphill travel using low-hydrogen electrodes.</p> <p>API-1104 Update: 1. Successfully perform a test weld on a 6.625" OD or above in a fixed position uphill travel using low-hydrogen electrodes. 2. Successfully perform a test weld on a 6.625" OD or above in a fixed position downhill travel.</p> <p>Abnormal Operating Conditions</p>					
CT-35	<p>Inspection of New Pipe Installation</p> <p>Qualification Criteria include:</p> <p>Oversee (inspect) a permanent repair of a pipeline by replacing a section of pipe. a) Tie-ins b) Gas handling procedures using evacuators. c) Perform all environmental and safety requirements.</p>	<p>Pipeline – O&M, Repair and Inspection</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual</p>	Welding 4 CO/WE4-102	<p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p> <p>105 Use, Care & Calibration of Combustible Gas Instruments</p> <p>409 Pipeline Leak Repair</p> <p>411 Pipeline Purging</p> <p>602 Weld Repair &</p>	<p>CenterPoint Energy Manual of Operations & Maintenance, Book 1, Procedure: ♦ 226</p> <p>CenterPoint Energy Manual of Construction Specifications, Book 2, Procedures: ♦ 100 ♦ 104</p>	<p>Natural Gas: 192.309, 192.713[a] [1] 192.717[a]</p> <p>5 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>d) Company operating procedures</p> <p>Ensure that pipe-to-pipe applications minimum length is 1.5 times the diameter of the carrier pipe.</p> <p>Gas handling procedures using evacuators.</p> <p>Document permanent pipeline repairs</p> <p>Recognize and React to Abnormal Operating Conditions</p>	<p>obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>		<p>Welding Procedures</p>	<p>CenterPoint Energy Manual of Engineering Standards, Book 3, Drawings:</p> <ul style="list-style-type: none"> ◆ A-ST-PS-29 ◆ A-ST-PS-30 	
CT-37	<p>Unit Starting Sequence (Reciprocating and Turbine)</p> <p>Qualification Criteria include:</p> <p>Set the unit and yard piping for proper mode of operation.</p>	<p>Compressor – Unit Starting, Loading, Unloading and Shutdown</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse</p>	<p>Mechanical 3 MECH3-367</p> <p>Mechanical 3 MECH3-384</p>	<p>700 Compressor Station Operations & Safety</p> <p>701 Reciprocating Compressor Units</p> <p>703 Compressor Station Operations: Turbine Units</p> <p>704 Compressor Operations: Compressor</p>	<p>CenterPoint Energy Manual of Operations & Maintenance, Book 1, Procedure:</p> <ul style="list-style-type: none"> ◆ 302 	<p>Natural Gas: 192.605[b][7]][8]</p> <p>5 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>Perform a walk-around inspection before starting the unit.</p> <p>Demonstrate your ability to start a unit according to posted procedures on the panel board and in the Team's Emergency Plan Book.</p> <p>Perform a walk-around inspection after starting the unit.</p> <p>a) Leaks (oil, gas, coolant).</p> <p>b) Knocks and noises (unusual noises).</p> <p>c) Vibration.</p> <p>d) Ensure proper disposition of any released fluids. Review MSDS prior to handling.</p> <p>Purge and pressurize the compressor.</p> <p>Abnormal Operating Conditions</p>	<p>conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>		<p>Cylinders</p> <p>705 Compressor Operations: gas Path Integrity</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>		
CT-38	<p>Loading & Operating the Unit (Reciprocating and Turbine)</p> <p>Qualification Criteria include:</p>	<p>Compressor – Unit Starting, Loading, Unloading and Shutdown</p> <p>Span-of-Control 5</p>	<p>Mechanical 3 MECH3-368</p>	<p>700 Compressor Station Operations & Safety</p> <p>701 Reciprocating Compressor Units</p>	<p>CenterPoint Energy Manual of Operations & Maintenance, Book 1, Procedure:</p>	<p>Natural Gas: 192.605[b][7]][8]</p> <p>5 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>Set the unit & yard piping for proper mode of operation.</p> <p>Follow the unit loading steps in the correct sequence to load the unit. The purpose is to balance the load on the crankshaft.</p> <p>Purge and pressurize the compressor.</p> <p>Perform a walk-around inspection after loading the unit.</p> <p>Load the unit following the posted procedures or in the Team's Emergency Plan Book.</p> <p>Locate the units load step and close the correct pocket. Change the torque set point.</p> <p>Demonstrate how to read the unit curves.</p> <p>Demonstrate ability to change load.</p> <p>Abnormal Operating Conditions</p>	<p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>		<p>703 Compressor Station Operations: Turbine Units</p> <p>704 Compressor Operations: Compressor Cylinders</p> <p>705 Compressor Operations: gas Path Integrity</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>◆ 302</p> <p>CenterPoint Energy Manual of Compressor Standards, Book 8, Procedures:</p> <p>◆ 203</p> <p>◆ 204</p> <p>◆ 205</p>	
CT-39	Unloading & Unit Shut Down	Compressor Maintenance –	Mechanical 3 MECH3-369	700 Compressor Station Operations	CenterPoint Energy	Natural Gas:

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>(Reciprocating and Turbine)</p> <p>Qualification Criteria include:</p> <p>Adjust speed and loading steps as necessary. Follow posted procedures for the specific unit.</p> <p>Unload the unit in accordance with posted procedures.</p> <p>a) Adjust to cool down speed. b) Allow unit to cool down for required time period.</p> <p>Shut down unit following posted procedures.</p> <p>a) Check post lube on engine and turbocharger.</p> <p>Set unit valves. a) All valves in proper position.</p> <p>Perform a walk-around inspection after the unit is shut down.</p> <p>Recognize and React to Abnormal Operating Conditions</p>	<p>Unit Starting, Loading, Unloading and Shutdown</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	<p>Mechanical 3 MECH3-382</p>	<p>& Safety</p> <p>701 Reciprocating Compressor Units</p> <p>703 Compressor Station Operations: Turbine Units</p> <p>704 Compressor Operations: Compressor Cylinders</p> <p>705 Compressor Operations: gas Path Integrity</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>Manual of Operations & Maintenance, Book 1, Procedure: ◆ 302</p> <p>CenterPoint Energy Manual of Compressor Standards, Book 8, Procedure: ◆ 204</p>	<p>192.605[b][7][8]</p> <p>5 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
CT-40	<p>Turbine: Optimum Operating Parameters</p> <p>Qualification Criteria include:</p> <p>Observe employee reviewing and adjust, if necessary.</p> <p>a) Speed. b) Pressure (suction and discharge). c) Gas flow rate. d) Any other site-specific adjustments.</p> <p>Using the control panel, locate the following readings: a) Suction pressure and temperature. b) Discharge pressure and temperature. c) Oil pressure and temperature. d) Fuel gas pressure. e) How and when to change parameters. f) Through-put pressure and temperature. g) Surge control readings.</p> <p>Identify the screens</p>	<p>Compressor Maintenance – Unit Starting, Loading, Unloading and Shutdown</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	<p>Mechanical 3 MECH3-383</p>	<p>700 Compressor Station Operations & Safety</p> <p>701 Reciprocating Compressor Units</p> <p>703 Compressor Station Operations: Turbine Units</p> <p>704 Compressor Operations: Compressor Cylinders</p> <p>705 Compressor Operations: gas Path Integrity</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Operations & Maintenance, Book 1, Procedure: ◆ 302</p>	<p>Natural Gas: 192.605[b][7] [8]</p> <p>5 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>with parameters to be changed by operator.</p> <p>Recognize and React to Abnormal Operating Conditions</p>					
CT-41	<p>Non-destructive testing of pipeline welds</p> <p>Qualification Criteria include:</p> <ol style="list-style-type: none"> 1. X-Ray welds 2. Weld Repairs <p>Abnormal Operating Conditions:</p> <p>The Company analyzed and adopted the AOC's contract X-Ray Technicians train on through Veriforce and NCCER qualification requirements.</p>	<p>Pipeline – Welding, Non-destructive Testing (X-ray welds)</p> <p>Span-of-Control - All non-destructive testing personnel must be qualified.</p>	<p>Non-destructive testing of pipeline welds is not a PASK requirement.</p>	<p>American Society for Non-destructive Testing (ASNT) Certification: SNT-TC-1A (3 year Certification)</p>	<p>CenterPoint Energy Manual of Safety Standards, Book 6, Procedure:</p> <ul style="list-style-type: none"> • 10 <p>CenterPoint Energy Manual of Construction Standards, Book 2, Procedure:</p> <ul style="list-style-type: none"> • 100 • 103 	<p>Natural Gas: 192.241 [b] [c] 192.243</p> <p>3 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
CT-42	<p>Emergency Shut Down (ESD) System Testing and Operations</p> <p>Qualification Criteria include:</p> <p>Perform or simulate an actual ESD test.</p> <p>Complete annual test documentation for ESD test.</p> <p>Document lost gas, if required.</p> <p>Adjust any valve operators for proper operation.</p> <p>a) Troubleshoot different types of valve operators (Shafer, Bettis, etc.).</p> <p>b) Locate, adjust and repair all power and pilot components.</p> <p>Put station back in service after ESD and restore all electrical power.</p> <p>If an actual (non-test) ESD occurs, investigate the cause of the ESD. Make repairs and adjustments to the system as required. Prepare the DOT</p>	<p>Compressor Maintenance – Emergency Shutdown Systems, Controls</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	<p>Mechanical 4 MECH4-415</p> <p>Mechanical 5A MECH5A-469</p> <p>Electronics 5C ELEC5C-202</p> <p>Electronics5D ELEC5D-240</p>	<p>400 Valve Operators</p> <p>401 Valve Maintenance</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p> <p>700 Compressor Station Operations & Safety</p>	<p>CenterPoint Energy Manual of Operations & Maintenance, Book 1, Procedure: ◆ 304</p>	<p>Natural Gas: 192.731</p> <p>3 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>report and required documentation.</p> <p>Recognize and React to Abnormal Operating Conditions</p>					
CT-43	<p>Engine safety shutdowns</p> <p>Qualification Criteria include:</p> <p>Explain all documentation that is kept by the Team that is associated with compressor safety shutdown testing. Show where calibration records are kept.</p> <p>Identify all safety shutdown controllers and end devices for all Team compressors.</p> <p>Explain individual control logic and how it applies to the compressor shutting down. (i.e. fuel shutoff and ignition shutoff).</p> <p>Locate each device and what is used to calibrate it. Locate calibration sheet which lists device calibrated, date calibrated and calibrated values.</p>	<p>Compressor Maintenance – Emergency Shutdown Systems, Controls</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	<p>Mechanical 4</p> <p>Electronics 5C ELEC5C-195</p> <p>Electronics 5D ELEC5D-223</p>	<p>700 Compressor Station Operations & Safety</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Compressor Standards, Procedures:</p> <ul style="list-style-type: none"> • 101 • 102 	<p>Natural Gas: 192.171</p> <p>3 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	Recognize and React to Abnormal Operating Conditions					
CT-44	<p>Odorization Injection Systems (Concentration Test)</p> <p>Qualification Criteria include:</p> <p>Explain the hazards associated with the handling of odorant</p> <p>Describe the proper disposal of odorant as a hazardous waste.</p> <p>Explain the DOT requirement (192.625) regarding odorization.</p> <p>At an odorant injection station, identify all of the components of the odorant injection equipment.</p> <p>Determine and calculate the odorant injection rate.</p> <p>Measure the odorant level in the</p>	<p>Measurement Maintenance – Odorization</p> <p>Span-of-Control - All individuals odorizing gas systems shall be qualified.</p>	Measurement 4 MEAS4-311	<p>202 Odorization</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Operations & Maintenance, Book 1, Procedure:</p> <ul style="list-style-type: none"> • 240 <p>CenterPoint Energy Manual of Measurement and Controls, Book 5, Procedures:</p> <ul style="list-style-type: none"> ◆ 500 ◆ 510 ◆ 520 ◆ 530 ◆ 540 ◆ 580 	<p>Natural Gas: 192.625</p> <p>3 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>gas stream with a sulphur titrator.</p> <p>Recognize and React to Abnormal Operating Conditions</p>					
CT-45	<p>Remotely Starting & Stopping A Compressor Unit</p> <p>Qualification Criteria include: Explain the proper remote starting sequence for a compressor unit.</p> <p>Identify the MAOP for 3 CenterPoint Energy compressor stations. a) Define MAOP according to DOT</p> <p>Demonstrate your ability to remotely start a unit according to appropriate procedures. a) Operate a gas compressor remotely on the CenterPoint Energy pipeline system.</p> <p>Demonstrate your ability to remotely stop a unit according to</p>	<ul style="list-style-type: none"> • Gas Control • Compressor Contractors • <p>Span-of-Control - All individuals remotely starting and stopping compressor units shall be qualified.</p>	<ul style="list-style-type: none"> • Gas Control • Liquid Operations • Mechanical Skill 	<p>700 Compressor Station Operations & Safety</p> <p>701 Reciprocating Compressor Units</p> <p>703 Compressor Station Operations: Turbine Units</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Operations & Maintenance, Book 1, Procedure: ♦ 302</p>	<p>Natural Gas: 192.605[b] [5] 192.605[b] [6] 192.605[b] [7]</p> <p>5 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>appropriate procedures.</p> <p>Ensure that the remote starting, adjusting and stopping of a gas compressor unit(s) are done in a manner that protects system integrity on the upstream, downstream and within the station piping itself.</p>					
CT-46	<p>Remotely Operating Pressure Limiting Devices (alarm set points)</p> <p>Qualification Criteria include:</p> <p>Explain the operations of remotely operated pressure limiting and control devices used to remotely operate segments of the pipeline system.</p> <p>Explain how a regulator's pressure sensing point works to control pressure.</p> <p>Ensure that utilizing pressure limiting or control devices</p>	<ul style="list-style-type: none"> Gas Control Compressor Contractors <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	<ul style="list-style-type: none"> Gas Control Mechanical Skill Measurement Skill 	<p>402 Inspecting & Testing Relief Valves, Regulators and Control Valves</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Operations & Maintenance, Book 1, Procedure:</p> <ul style="list-style-type: none"> ◆ 302 	<p>Natural Gas:</p> <p>192.731 192.739</p> <p>3 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	<p>remotely are done in a manner that protects system integrity both on the upstream and downstream sides of the device.</p> <p>Recognize and React to Abnormal Operating Conditions</p>					

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
CT-47	<p>Responding & Investigating Abnormal Operating Conditions</p> <p>Qualification Criteria include:</p> <p>Explain the appropriate contacts (both CenterPoint & Emergency Response officials) to make during an emergency and the order of protection:</p> <p>a) Protection of life first, then property second.</p> <p>Explain emergency classifications and appropriate responses as outlined in O&M Book 1: Procedure 600.</p> <p>Explain the periodic review of response by field operating personnel and taking corrective actions when deficiencies are found.</p> <p>Rerouting of gas flow during emergencies</p> <p>Recognize and React to Abnormal Operating Conditions</p>	<ul style="list-style-type: none"> • Gas Control • All Contractors <p>Span-of-Control - Individuals must be able to recognize and react to Abnormal Operating Conditions.</p>	<ul style="list-style-type: none"> • Gas Control • All Skill Families <ul style="list-style-type: none"> • Liquid Operations 	101 Recognizing & Reacting to Abnormal Operating Conditions & Safety Related Conditions	CenterPoint Energy Manual of Operations & Maintenance, Book 1, Procedure: <ul style="list-style-type: none"> ◆ 600 	<p>Natural Gas: 192.605[c] [1] [2][3][4][5]</p> <p>3 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
CT- 49	<p>Internal Corrosion – Chemical Inhibitor Injections</p> <p>Qualification Criteria include:</p> <p>Direct the injection of inhibitors into a selected pipeline to mitigate internal corrosion.</p> <p>Describe or direct batch treatment at recommended inhibitor volumes.</p> <p>Dispose of all inhibitors in accordance with Environmental procedures.</p> <p>Perform an internal corrosion program evaluation of a pipeline system and make suggestions to mitigate the problems.</p> <p>Demonstrate and/or describe the safe installation and removal of coupons.</p> <p>Demonstrate and/or describe the analysis of coupons and/or probes and interpret the findings.</p>	<p>Corrosion – Internal Corrosion Monitoring, Chemical Injection, Pipe Inspection</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	Corrosion/Pipeline 5 CR/PL5-068	<p>507 Internal Corrosion Monitoring</p> <p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p>	<p>CenterPoint Energy Manual of Corrosion Control, Book 4, Procedure:</p> <ul style="list-style-type: none"> • 600 <p>CenterPoint Energy Manual of Environmental Standards – Waste Management, Book 7A, Procedure:</p> <ul style="list-style-type: none"> • 514 	<p>Natural Gas: 192.475[c]</p> <p>3 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
CT- 50	<p>Recognize and React to Abnormal Operating Conditions</p> <p>Permanent Pipeline Repair-Reinforcement Methods</p> <p>Qualification Criteria include:</p> <p>This task includes the preparation and installation of composite materials – Armor Plate. Qualified individuals will be able to apply an Armor Plate composite sleeve on an existing pipeline in accordance with CenterPoint Energy’s O&M Book 1: Procedure 225 and 226, and in accordance with Armor Plate guidelines.</p> <p>Recognize and React to Abnormal Operating Conditions</p>	<p>Pipeline – Leak Repair, Pipeline blow down, Purging</p> <p>Span-of-Control 1:2</p> <p>NOTE: The Span-of-Control of 1:2 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	Pipeline/Corrosion 5 CR/PL5-083	Armor Plate Certification – Includes Company defined AOC’s	<p>CenterPoint Energy Manual of Operations & Maintenance, Book 1, Procedures: 225 and 226</p> <p>CenterPoint Energy Manual of Corrosion Control, Book 4, Procedures: 210</p>	<p>Natural Gas: 192.713 192.717[b] [5]</p> <p>2 Years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
CT- 57	<p>Moving In-Service Pipe:</p> <p>Qualification Criteria Include: Activities required to move or reposition (raise, lower, lateral) a section of the pipeline while it is in operation.</p> <p>Elements of this task may include: 1. Determine the product type (consideration for HVL) 2. Determine allowable line pressure 3. Pipe lifting 4. Support pipe</p> <p>This task in normally performed or supervised by Project Engineers, or designated Region Personnel, Contract pipeline construction companies and contract pipeline maintenance personnel.</p> <p>Abnormal Operating Conditions</p>	<p>Operations & Maintenance for Liquid Pipeline Operators</p> <p>Span-of-Control 5</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	Not applicable	101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions	CenterPoint Energy Manual of Engineering Standards, Book 3, Procedures: 101 through 108 and 113	<p>Natural Gas: 192.713</p> <p>3 years</p>

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
CT- 69	<p>Station Gas Detection Systems</p> <p>Qualification Criteria Include: Verification that the permanently installed explosive atmosphere detection and alarm system is functioning within specified parameters, after installation, and prior to or during placing in service. This task also includes the performance test, and the repair or replacement of fixed explosive atmosphere detection and alarm system. Qualified individual will be able to locate, explain the purpose, and conduct a performance</p>	<p>Compressor Maintenance – Safety Devices and Systems</p> <p>Span-of-Control 1:1</p> <p>NOTE: The Span-of-Control of 5 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	Checklist: MECH3-389	<p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p> <p>700 Station Operations: Compressor Station Safety</p> <p>OR</p> <p>CEPS Course 931 DOT Required Safety Devices</p>	<p>CenterPoint Energy O&M Manual Book 1 : Procedure 310</p> <p>CenterPoint Energy Manual of Compressor Standards Book 8 : Procedure 310 – Gas Detection Operations & Testing</p>	<p>Natural Gas: 192.171 and 192.736</p> <p>3 years</p>

**CenterPoint Energy Covered task(s) and
Qualification Criteria**

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
	inspection and calibration of gas detection system/s. Abnormal Ops Conditions					

CenterPoint Energy Covered task(s) and Qualification Criteria

Task	Task/Skill Set	Contractor Category	PASK SPR(s) [Internal Company use only]	eWebOQ Module & other Certification(s)	Company Procedure(s)	DOT Covered Task / Re-evaluation Frequency
CT-1051	<p>Fit-up of Weld Type Repair Sleeves (Non-pressurized and Pressurized)</p> <p>Qualification Criteria Include: Proper and safe fit-up both Non-Pressurized (Type A) and Pressurized (Type B) weld-over full encirclement split sleeve in accordance with DOT and CenterPoint Energy's procedures. Task includes: Pipe preparation prior to installation.</p> <p>(Qualification for this task only allows for the fit-up of weld type repair sleeves. Qualified personnel must perform all other associated tasks and covered tasks i.e. Welding, NDT, sleeve selection, excavation, and re-coating.)</p> <p>Abnormal Ops Conditions</p>	<p>Pipeline – Leak Repair, Pipeline blow down, Purging</p> <p>Span-of-Control 1:2</p> <p>NOTE: The Span-of-Control of 1:2 is based on ideal operating conditions. If adverse conditions exist at the job site, i.e. dust, rain, darkness, visual obstructions, distance from non-qualified individuals, etc. the Span-of-Control shall be less than the number listed to account for these adverse factors</p>	<p>CO/WE4-094 and 95</p> <p>Checklist: CR/PL4-086</p>	<p>101 Recognize and React to Abnormal Operating Conditions & Safety Related Conditions</p> <p>105 Use, Care & Calibration of Combustible Gas Instruments</p> <p>106 OSHA/DOT Excavation Safety</p> <p>409 Pipeline Leak Repair</p> <p>602 Weld Repair & Welding Procedures</p>	<p>CenterPoint Energy Manual of Operations & Maintenance, Book 1, Procedure: 226</p> <p>CenterPoint Energy Manual of Construction Specifications, Book 2, Procedure: 53</p> <p>CenterPoint Energy Manual of Engineering Standards, Book 3, Drawings: A-ST-PS-29 and A-ST-PS-30</p>	<p>Natural Gas: 192.241 192.309 192.713 192.715[c] 192.717</p> <p>3 Years</p>

Exhibit II - eWebOQ Test Validation and Quality Assurance/Quality Control Procedure

Purpose and Scope

The Department of Transportation (DOT) Office of Pipeline Safety issued rule 49 CFR 192 Subpart N and 49 CFR 195 Subpart G, Qualification of Pipeline Personnel. This rule requires that all individuals, performing operating and maintenance activities on regulated pipeline facilities, be qualified to perform those activities.

In order to comply with the rule, the Company has developed an "Operator Qualification Plan." In our Plan, we have identified the requirements that employees who perform covered tasks on Company facilities and/or perform third party work must meet in order to comply with the rule.

Company as a Contractor

As a contractor, the Company must demonstrate to our clients, for whom we perform third party work, that we are qualified to perform the identified covered tasks in compliance with this DOT regulation.

Company will use eWebOQ as our Operator Qualification compliance tool.

eWebOQ Validation – Overview

Key components of the validation and QA/QC process:

- Validate identification of person taking and completing each test.
- Ensure test integrity.
- Ensure employees who fail a eWebOQ test or who do not hold a valid qualification **DO NOT** perform DOT covered tasks without a qualified person present.
- A proctor will be present while test is being completed.
- Individuals, who fail an eWebOQ test, are required to complete training prior to re-testing. The testing party will schedule and proctor test; if test is failed, the employee will be allowed to retest on the same day upon completion of the appropriate eWebOQ training module.
- In the event an employee fails the test twice in the same day, there will be a minimum seven day waiting period before the next test can occur.

Performance Evaluation Validation – Overview

Key components of the validation and QA/QC process:

- Only trained and qualified Observers/Evaluators can administer performance evaluations.
- Ensure performance evaluation integrity.
- Individuals who fail a performance evaluation are required to complete further training as prescribed by the Observers/Evaluator prior to retesting.
- Ensure employees who fail a performance evaluation or who do not hold a valid qualification **DO NOT** perform DOT covered tasks without a qualified person present.

- The testing party will schedule retesting dates upon completion of the appropriate training.
- There will be a minimum seven day waiting period before the next test can occur.

eWebOQ Quality Assurance /Quality Control (QA/QC) Practices

Company's eWebOQ Quality Assurance/Quality Control (QA/QC) Practices are designed to provide a high level of assurance to internal and third party clients that employees who are stated to be qualified for specific covered tasks – are qualified and are the individuals who have been qualified.

Specific documents and identification required as a minimum for and acceptable QA/QC include:

- Photo identification of each employee taking a test,
- Validation Process (making sure the qualified employee is who he says he is and qualification for covered tasks are clearly documented and readily accessible for Company at any job site),
- Company can explain the process to clients, and
- All exams used to create a qualification are proctored.

How the eWebOQ QA/QC Process Works for Company

1. All employees have an assigned covered task curriculum currently in the eWebOQ system. This covered task curriculum is based on the covered tasks they are expected to perform in their daily activities.

Employees may take any and all training programs as many times as they choose to become familiar with the material to be tested. No authorization is required for this. Training will not be proctored. Employees will make his/her own decision regarding how much and how often to review eWebOQ training material.

eWebOQ training modules are accessed by logging into the eWebOQ system and selecting a training module and clicking the "Run Course" button.

2. When an employee is prepared to take and complete a eWebOQ test, they will contact their Service Area Leader and he/she will schedule the proctor to administer the test. When the employee logs into the eWebOQ system (using the employee's own identification and password), selects a module and clicks the "Final Exam" button, a dialog box will appear.

This dialog box is a security feature.

The proctor must enter his identification number and password in the dialog box in order for the employee to take the final exam.

Prior to the proctor entering his identification and password, the proctor will:

- Ask to see photo identification of each employee taking a test. NOTE – it is the employee’s responsibility to provide the proctor with sufficient and proper identification. If the proctor cannot clearly establish the identity of an employee to his satisfaction, the proctor is not obligated to allow the exam to continue.
- Review the employee’s on-line record to ensure that the exam is consistent with the employee’s identified covered task curriculum.
- The proctor will witness all exams taken and used to create a qualification record (no notes, written test question, etc. may be used during the exam).
- At the conclusion of the exam, the proctor will witness the employee exiting the eWebOQ system.

Exhibit III – Welder Qualification Checklist - Form PS 8088

TASK: CenterPoint Energy Welder Qualification

Note: A designated CenterPoint Energy representative must be present to oversee and inspect all welding. Determinations regarding repair by sleeves will be made by the Region Engineer and Pipeline Integrity. The performance of ultrasonic tests, weld defect repair requirements, dye penetrant tests, combustible gas inspection tests, and excavation safety inspections will be conducted by qualified Company employees.

OBJECTIVE: To be considered a “Qualified Welder” both Team Members and Contractors must successfully complete the CenterPoint Energy welding test. The CenterPoint Energy welding test allows both ASME IX and API-1104. CenterPoint Energy Qualified Welders, both Team Members and Contractors, must be able to:

1. Determine the CenterPoint Energy repair procedure to be used for a weld defect when visually identified by inspection or by a certified x-ray technician’s review of x-ray film.
2. Recognize and react to abnormal operating conditions encountered while performing welding activities.
3. Use all appropriate safety equipment at a pipeline tie-in job site including, but not limited to combustible gas instruments, fire extinguishers, excavation safety equipment, personal protective equipment, etc.

Team Members must be able to complete CenterPoint Energy’s daily welding inspection reports in accordance to CenterPoint Energy’s Manual of Construction Specifications, Book 2, Procedure 95, CenterPoint Energy’s Form PS7610 – Daily Summary of Non-Destructive Testing and DOT Part 192.

This checklist shall be used by CenterPoint Energy Welding Inspectors to document that an individual being qualified (Team Members and Contractors) under CenterPoint Energy’s welding test or tests are knowledgeable of and can recognize and react to abnormal operating conditions encountered while performing welding on CenterPoint Energy pipeline facilities. Additionally, this checklist shall be used to document the CenterPoint Energy qualified welders ability and knowledge of weld defects and the CenterPoint Energy repair procedure to be used.

SUGGESTED TRAINING MATERIALS AND REFERENCES:

1. CenterPoint Energy’s Manual of Construction Specifications, Book 2, Specifications 95, 100, 102, 103, and 106.
2. CenterPoint Energy’s Daily Summary of Non-Destructive Welds. (Form GT7610)
3. DOT Sections 192.225, 192.227, 192.229, 192.231, 192.233, 192.235, 192.241, 192.243, 192.245, 192.485, 192.713, and 192.717.
4. API Standard 1104 Section 4 – Specifications

5. API Standard 1104 Section 8 – Inspection and Testing of Production Welds
6. API Standard 1104 Section 9 – Acceptance Standards for Non-Destructive Testing
7. API Standard 1104 Section 10 – Repair and Removal of Weld Defects
8. API Standard 1104 Section 11 – Procedures for Non-Destructive Testing
9. CenterPoint Energy’s Manual of Engineering Standards, Book 3, Drawing A-ST-PS-31
10. CenterPoint Energy’s O&M Manual of Procedures, Book 1, Procedure 232
11. CenterPoint Energy’s Manual of Safety Procedures, Book 6, Procedures 3 &10
12. National Welding Inspection School

KNOWLEDGE REQUIREMENT(S):

ASME IX:

1. Explain CenterPoint Energy’s Manual of Construction Specifications, Book 2, Procedure 102, welding test criteria for:
 - a) Pipe size, grade and position
 - b) Destructive test method
 - c) Number, type and placement of straps.
2. Explain the timing for the initial welding test requirements under CenterPoint Energy’s Manual of Construction Specifications, Book 2, Procedure 102.
 - a) ASME Section IX will be used to qualify initially and each two years in accordance with CenterPoint Energy procedures.
3. Explain the ASME Section IX welder qualification criteria in CenterPoint Energy’s Manual of Construction Specifications, Book 2, Procedure 102.
4. Explain the ASME Section IX welder qualification test criteria in CenterPoint Energy’s Manual of Construction Specifications, Book 2, Procedure 200.

API-1104:

5. Explain the API 1104 test criteria for:
 - a) Pipe size, grade and position - CenterPoint Energy’s Manual of Construction Specifications, Book 2, Procedure 102.
 - b) Destructive and non-destructive test methods.
 - c) Number, type and placement of straps.
6. Explain the welding update test requirements under API 1104:
 - a) Time interval – 6 months in accordance with DOT 192.229
 - b) Required welding test: 6.625” OD or above fixed position both uphill and downhill.

PERFORMANCE TASK(S):

Original Qualification Test:

1. Welder Test No. 1 - Successfully perform a 12.750" OD x .281 wt API 5LX-60 in a fixed position 45° from horizontal downhill travel. (Qualifies a welder for 2.875" OD and above up to .562" wt.)
2. Welder Test No. 2 - Successfully perform a 2.375" OD x .218 wt Grade B in a fixed position at 45° degree from horizontal, with a downhill travel. (Qualifies a welder for 1" OD and above up to .562" wt.)

*Welder qualification Tests 1 and 2 must be completed/passed to qualify for standard butt welds and tie-ins.

3. Welder Test No. 3 - Successfully perform a 2.375" OD x .344 wt Grade B in fixed position at 45° degree from horizontal with uphill travel using low-hydrogen electrodes. (Qualifies a welder for taps, fittings, and sleeves, low hydrogen uphill, up to .688" wt.)
4. Welder Test No. 4 – Successfully perform a 12.750" OD x 0.625" wt API 5LX-60 in a fixed position at 45° degree from horizontal, ASME 6-G position. (Qualifies a welder for heavy wall, downhill only, up to 1.25" wt.)
5. Welder Test No. 5 – Successfully perform a 12.750" OD x 1.125" wt API 5LX-52 or greater in a fixed position at 45° degree from horizontal, ASME 6-G position. (Qualifies a welder for taps, fittings, and sleeves, low hydrogen uphill, .688" or greater and heavy wall up to 2.250" wt.)

Update Qualification:

1. Successfully perform a test weld on a 6.625" OD or above in a fixed position uphill travel using low-hydrogen electrodes. (Re-qualifies a welder for Tests 3 and 5 if previously passed.)
2. Successfully perform a test weld on a 6.625" OD or above in a fixed position downhill travel. (Re-qualifies a welder for Tests 1, 2, and 4 if previously passed.)

ABNORMAL OPERATING CONDITIONS:

1. Abnormal facility condition – Corrosion and/or material does not meet specifications.
Reaction: Notify designated CenterPoint Energy representative.
2. Component failure - Valve failure, weld/seam failure, flange, joint.
Reaction: Notify designated CenterPoint Energy representative.
3. Fire / Explosion - Ignition of hazardous liquids or gases.
Reaction: Notify designated CenterPoint Energy representative.
4. Pipeline System damage - Wrinkle, buckle, over-stress, gouge, dent, or other defect in area to be welded, arc burns.
Reaction: Notify designated CenterPoint Energy representative.
5. Unexpected hazardous liquid or carbon dioxide encountered - Failure of isolation device.
Reaction: Notify designated CenterPoint Energy representative.
6. Oxygen depleted atmosphere – Excavation or work area could have a hazardous atmosphere made up of a natural gas and air mixture reducing the atmosphere below required oxygen limits.
Reaction: Notify designated CenterPoint Energy representative.
7. Lockout and Tagout – Work may require valves and components to be shut in or isolated to ensure the safety of welders and workers at the welding site.
Reaction: Notify designated CenterPoint Energy representative.

CENTERPOINT ENERGY'S WELDER QUALIFICATION CHECKLIST

Name of Person being Qualified: _____

Employee Number: _____

If a Contractor, Company Name: _____

Team Location or Address: _____

City, State, Zip: _____

Telephone/Fax/E-mail: _____

CenterPoint Energy Welding Inspector(s): _____

Date: _____

Knowledge Requirement(s)

		Q	UQ	N/A	P	D
1a	<p style="text-align: center;">ASME IX</p> <p>Explain CenterPoint Energy's Manual of Construction Specifications, Book 2, Procedure 102 welding test criteria for:</p> <p>a) Pipe size, grade and position</p>					
1b	b) Destructive test method					
1c	c) Number, type and placement of straps.					

2a	<p>Explain the timing for the initial welding test requirements under CenterPoint Energy's Manual of Construction Specifications, Book 2, Procedure 102</p> <p>a) ASME Section IX will be used to qualify initially and each two years in accordance with CenterPoint Energy procedures.</p>	Q UQ N/A	P	D	
3	<p>Explain the ASME Section IX welder qualification criteria in CenterPoint Energy's Manual of Construction Specifications, Book 2, Procedure 102.</p>	Q UQ N/A	P	D	
4	<p>Explain the ASME Section IX welder qualification test criteria in CenterPoint Energy's Manual of Construction Specifications, Book 2, Procedure 200.</p>	Q UQ N/A	P	D	
5a	<p style="text-align: center;">API-1104</p> <p>Explain the API 1104 test criteria for:</p> <p>a) Pipe size, grade and position – CenterPoint Energy's Manual of Construction Specifications, Book 2, Procedure 102.</p>	Q UQ N/A	P	D	
5b	<p>b) Destructive and non-destructive test methods.</p>	Q UQ N/A	P	D	
5c	<p>c) Number, type and placement of straps</p>	Q UQ N/A	P	D	
6a	<p>Explain the welding update test requirements under API 1104:</p> <p>a) Time interval – 6 months in accordance with DOT 192.229</p>	Q UQ N/A	P	D	

6b	b) Required welding test: 6.625" OD or above fixed position both uphill and downhill.	Q UQ N/A	P	D	
Performance Task(s)					
1	Original Qualification Test Successfully perform a 12.750" OD x .281 wt API 5LX-60 in a fixed position 45° from horizontal downhill travel. (*Welder qualification Tests 1 and 2 must be completed/passed to qualify for standard butt welds and tie-ins. Test 1 qualifies a welder for 2.875" OD and above, up to .562" wt.)	Q UQ N/A	P	D	
2	Successfully perform a 2.375" OD x .218 wt Grade B in a fixed position at 45° degree from horizontal, with a downhill travel. (*Welder qualification Tests 1 and 2 must be completed/passed to qualify for standard butt welds and tie-ins. Test 2 qualifies a welder for 1" OD and above, up to .562" wt.)	Q UQ N/A	P	D	
3	Successfully perform a 2.375" OD x .344 wt Grade B in fixed position at 45° degree from horizontal with uphill travel using low-hydrogen electrodes. (Qualifies a welder for taps, fittings, and sleeves, low hydrogen uphill, up to .688" wt.)	Q UQ N/A	P	D	
4	Welder Test No. 4 – Successfully perform a 12.750" OD x 0.625" wt API 5LX-60 in a fixed position at 45° degree from horizontal, ASME 6-G position. (Qualifies a Welder for heavy wall, downhill only, up to 1.25" wt.)	Q UQ N/A	P	D	

5	Welder Test No. 5 – Successfully perform a 12.750” OD x 1.125” wt API 5LX-52 or greater in a fixed position at 45° degree from horizontal, ASME 6-G position. (Qualifies a welder for taps, fittings, and sleeves, low hydrogen uphill, .688” or greater and heavy wall up to 2.250” wt.)	Q UQ N/A	P	D	
1	Update Qualification Successfully perform a test weld on a 6.625” OD or above in a fixed position uphill travel using low-hydrogen electrodes. (Re-qualifies a welder for Tests 3 and 5 if previously passed.)	Q UQ N/A	P	D	
2	Successfully perform a test weld on a 6.625” OD or above in a fixed position downhill travel. (Re-qualifies a welder for Tests 1, 2, and 4 if previously passed.)	Q UQ N/A	P	D	
Abnormal Operating Conditions					
1	Abnormal facility condition – Corrosion and/or material does not meet specifications Reaction: Notify designated CenterPoint Energy representative.	This Abnormal Operating Condition and the listed Reaction has been reviewed with the CenterPoint Energy’s welder qualification candidate. The candidate appears to understand this Abnormal Operating Condition.		Yes	No
2	Component failure - Valve failure, weld/seam failure, flange, joint Reaction: Notify designated CenterPoint Energy representative.	This Abnormal Operating Condition and the listed Reaction has been reviewed with the CenterPoint Energy’s welder qualification candidate. The candidate appears to understand this Abnormal Operating Condition.		Yes	No

3	<p>Fire / Explosion - Ignition of hazardous liquids or gases</p> <p>Reaction: Notify designated CenterPoint Energy representative.</p>	<p>This Abnormal Operating Condition and the listed Reaction has been reviewed with the CenterPoint Energy's welder qualification candidate. The candidate appears to understand this Abnormal Operating Condition.</p> <p style="text-align: center;">Yes No</p>
4	<p>Pipeline System damage - Wrinkle, buckle, over-stress, gouge, dent, or other defect in area to be welded, arc burns.</p> <p>Reaction: Notify designated CenterPoint Energy representative.</p>	<p>This Abnormal Operating Condition and the listed Reaction has been reviewed with the CenterPoint Energy's welder qualification candidate. The candidate appears to understand this Abnormal Operating Condition.</p> <p style="text-align: center;">Yes No</p>
5	<p>Unexpected hazardous liquid or carbon dioxide encountered - Failure of isolation device.</p> <p>Reaction: Notify designated CenterPoint Energy representative.</p>	<p>This Abnormal Operating Condition and the listed Reaction has been reviewed with the CenterPoint Energy's welder qualification candidate. The candidate appears to understand this Abnormal Operating Condition.</p> <p style="text-align: center;">Yes No</p>
6	<p>Oxygen deleted atmosphere – Excavation or work area could have a hazardous atmosphere made up of a natural gas and air mixture reducing the atmosphere below required oxygen limits.</p> <p>Reaction: Notify designated CenterPoint Energy representative.</p>	<p>This Abnormal Operating Condition and the listed Reaction has been reviewed with the CenterPoint Energy's welder qualification candidate. The candidate appears to understand this Abnormal Operating Condition.</p> <p style="text-align: center;">Yes No</p>

7	<p>Lockout and Tagout – Work may require valves and components to be shut in or isolated to ensure the safety of welders and workers at the welding site.</p> <p>Reaction: Notify designated CenterPoint Energy representative.</p>	<p>This Abnormal Operating Condition and the listed Reaction has been reviewed with the CenterPoint Energy’s welder qualification candidate. The candidate appears to understand this Abnormal Operating Condition.</p> <p style="text-align: center;">Yes No</p>
---	--	--

Qualification Summary

Center Point Energy Welder Qualification Test:

Qualified (Indicate Pass or Fail):

Qualified For:

Test 1. Standard butt welds and tie-ins, 2.875" OD and above up to .562" wt.
Pass Fail

Test 2. Standard butt welds and tie-ins, 1" OD and above up to .562" wt.
Pass Fail

Test 3. Taps, fittings, and sleeves, low hydrogen uphill up to .688" wt.
NA Pass Fail

Test 4. Heavy wall downhill only up to 1.25" wt. NA Pass Fail

Test 5. Taps, fittings, and sleeves, low hydrogen uphill .688" wt.
or greater and heavy wall up to 2.250" wt.
NA Pass Fail

Observer Comments, Signature & Date (Use additional pages if necessary):

I have read the required materials and understand my responsibilities as a candidate for this task, including operations of all equipment or application of a procedure(s) necessary to complete this task. I have received training to operate the equipment or perform this task safely and efficiently, and to the standards set forth by CenterPoint Energy, DOT Operator Qualification, industry best practices and Local, State, and/or Federal guidelines.

Contractor or CenterPoint Energy Employee Number, Signature & Date: