

**Form F 8314**

UTC Standard Comprehensive Inspection Report  
 Small LPG Systems  
 FORM F: Records Review & Field Observations

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A completed Standard Inspection Checklist, OQ Field Validation Protocol form and Cover Letter are to be submitted to the Chief Engineer within 30 days of completion of the inspection.

**Inspector and Operator Information**

<b>Inspection ID</b> 8314	<b>Inspection Link</b> 8314	<b>Inspector - Lead</b> Dorrough, Anthony	<b>Inspector - Assist</b>
<b>Operator</b> Sunshine Propane	<b>Unit</b> Silverwater Cafe Meter System	<b>Records Location - City &amp; State</b> 10853 Rhody Drive Port Hadlock WA	
<b>Inspection Start Date</b> 05-26-2021	<b>Inspection Exit Interview Date</b> 05-26-2021	<b>Engineer Submit Date</b> 06-10-2021	

You must include the following in your inspection summary:

- \*Inspection Scope and Summary
- \*Facilities visited and Total AFOD
- \*Summary of Significant Findings
- \*Primary Operator contacts and/or participants

*This Standard LPG Distribution inspection covered plan and records review questions, WAC requirements and a pipeline field review. This was the first Standard inspection, the last inspection of this unit was a*

*Technical Assistance (TA) inspection performed on Jun 18, 2019 which indicated some concerns related to messaging and valves that were found to be vulnerable to tampering, both of these were addressed*

*during the inspection. Weather: Mild/Partly Sunny Temp: 59 degrees*

*A verbal exit interview was conducted on May 26, 2021 with Joe Richardson/District Manager/Sunshine Propane and Dave Monroe/Service technician, Estimator/Sunshine Propane.*

**System Summary:**

*This LPG Distribution Meter System consists of a 1000 gal. container serving [7] meters located on three building structures with Polyethylene (PE) pipelines.*

**Significant Findings Summary:**

*The inspection resulted in [7] probable violations.*

- \*480-93-015(3) - SP failed to provide documentation that gas detection instruments were tested for accuracy in 2019 & 2020.*
- \*480-93-188(2) - SP failed to provide documentation that gas detection instruments were tested for accuracy in 2019 & 2020.*
- \*192.605(a) - SP failed to provide documentation that O&M procedures are reviewed and updated at intervals not exceeding 15 months or at least once each year.*
- \*192.615(b)(1) - SP failed to provide documentation that each supervisor responsible for emergency action was provided with a current copy of applicable emergency procedures.*
- \*192.615(b)(2) - SP failed to provide documentation that they trained operating personnel in emergency procedures and verify the training was effective.*
- \*192.615(b)(3) - SP failed to provide documentation that there is a process to review employee's activities after an emergency.*
- \*192.615(c) - SP failed to provide documentation that face-to-face meetings had taken place with fire, police, or other public officials as outlined within the code.*

**Contacts:**

**SUNSHINEPROPANE.COM**

*(Newly appointed) Joe Richardson | District Manager | Sunshine Propane |*

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**Instructions and Ratings Definitions**

INSTRUCTIONS	INSPECTION RESULTS	
<b>S - Satisfactory</b>	<b>Satisfactory Responses</b> 97	<b>Satisfactory List</b> 25,26,27,28,29,31,32,33,34,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,55,56,57,58,59,60,63,64,65,66,67,68,70,72,73,74,75,76,77,79,82,83,84,91,95,96,107,108,109,110,119,120,121,126,127,128,129,130,159,160,166,168,170,171,172,176,178,182,183,185,191,192,204,234,237,238,239,240,242,243,244,249,253,2
<b>U - Unsatisfactory</b>	<b>Unsatisfactory Responses</b> 7	<b>Unsatisfactory List</b> 161,162,163,164,165,173,184,
<b>Area Of Concern</b>	<b>Area of Concern Responses</b> 0	<b>Area of Concern List</b>

<p><b>N/A- Not Applicable (does not apply to this operator or system)</b></p>	<p><b>Not Applicable Responses</b> 155</p>	<p><b>Not Applicable List</b> 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,30,35,52,53,54,61,6269,71,78,8081,85,86,87,88,89,90,92,93,94,100,102,103,104,105111,112,113,112,123,124,125131,132,133,134,135136,137,138,139,140,141,142,143,144,145146,147,148,149,150,151,152,153,154,155156,157,158,167,169,174,175177,179,180,181,10,193,194,195196,197,198,199,200,201,202,203,205206,207,208,209,210,211,212,213,214,215216,217,218,219,220,221,222,223,224,225226,227,228,229,230,236,241,245246,247,248,250,251,252,256,257,</p>
<p><b>N/C - Not Checked/Evaluated (was not inspected during this inspection)</b></p>	<p><b>Not Checked / Evaluated Responses</b> 0</p>	<p><b>Not Checked / Evaluated List</b></p>

**\*\*If an item is marked Unsat, AOC, N/A, or N/C, an explanation must be included in the "Notes" block for that question, and summarized in the "SUMMARY OF REQUIRED COMMENTS" section at the end of this form.**

**REPORTING RECORDS**

**Question 1**

Are telephonic reports for federally reportable incidents made to the NRC (800-424-8802) in accordance with Pat 191.5?

**Q1 Reference**

Part 191.5

**Q1 Result**

Not Applicable

**Q1 Notes**

No such reports this inspection cycle.

**Question 2**

Are telephonic reports to UTC Pipeline Safety Incident Notification hotline made in accordance with WAC 480-93-200(1) for events which:?

**Q2 Reference**

WAC 480-93-200(1)

**Q2 Result**

Not Applicable

**Q2 Notes**

No such reports this inspection cycle.

**Question 3**

Results in a fatality or personal injury requiring hospitalization;

**Q3 Reference**

WAC 480-93-200(1)(a)

**Q3 Result**

Not Applicable

**Q3 Notes**

No such reports this inspection cycle.

**Question 4**

Results in damage to property of the operator and others of a combined total exceeding fifty thousand dollars;

**Q4 Reference**

WAC 480-93-200(1)(b)

**Q4 Result**

Not Applicable

**Q4 Notes**

No such reports this inspection cycle.

**Question 5**

Results in the evacuation of a building, or high occupancy structures or areas;

**Q5 Reference**

WAC 480-93-200(1)(c)

**Q5 Result**

Not Applicable

**Q5 Notes**

No such reports this inspection cycle.

**Question 6**

Results in the unintentional ignition of gas;

**Q6 Reference**

WAC 480-93-200(1)(d)

**Q6 Result**

Not Applicable

**Q6 Notes**

No such reports this inspection cycle.

**Question 7**

Results in the unscheduled interruption of service furnished by any operator to twenty five or more distribution customers;

**Q7 Reference**

WAC 480-93-200(1)(e)

**Q7 Result**

Not Applicable

**Q7 Notes**

No such condition for this operator.

**Question 8**

Results in a pipeline or system pressure exceeding the Maximum Allowable Operating Pressure (MAOP) plus ten percent or the maximum pressure allowed by proximity considerations outlined in WAC 480-93-020

**Q8 Reference**

WAC 480-93-200(1)(f)

**Q8 Result**

Not Applicable

**Q8 Notes**

No such condition for this operator.

**Question 9**

Is significant, in the judgement of the operator, even though it does not meet the criteria of (a) through (e) of this subsection

**Q9 Reference**

WAC 480-93-200(1)(g)

**Q9 Result**

Not Applicable

**Q9 Notes**

No such reports this inspection cycle.

**Question 10**

Telephonic Reports made in accordance with WAC 480-93-200(2) to UTC Pipeline Safety Incident Notification 1-888-321-9146 (Within 24 hours) for:

**Q10 Reference**

WAC 480-93-200(2)

**Q10 Notes**

No such reports this inspection cycle.

**Question 11**

The uncontrolled release of gas for more than two hours;

**Q11 Reference**

WAC 480-93-200(2)(a)

**Q11 Notes**

No such reports this inspection cycle.

**Question 12**

A pipeline or system operating at low pressure dropping below the safe operating conditions of attached appliances and gas equipment; or

**Q12 Reference**

WAC 480-93-200(2)(c)

**Q12 Notes**

No such reports this inspection cycle.

**Question 13**

A pipeline or system pressure exceeding the MAOP

**Q13 Reference**

WAC 480-93-200(2)(d)

**Q13 Notes**

No such reports this inspection cycle.

**Question 14**

Does the operator file 30-day follow-up written report (Form 7100-1)?

**Q14 Reference**

49 CFR 191.9 9(a)

**Q14 Notes**

No such reports this inspection cycle.

**Question 15**

Does the operator file written incident reports to the Commission (within 30 days); and applicable supplemental incident reports?

**Q15 Reference**

WAC 480-93-200(4)

**Q15 Notes**

No such reports this inspection cycle.

**Question 16**

Does the operator file a written report within five days of receiving the failure analysis report for any incident or hazardous condition due to construction defects or material failure?

**Q16 Reference**

WAC 480-93-200(5)

**Q16 Notes**

No such reports this inspection cycle.

**Question 17**

Does the operator file with the Commission a copy of all applicable PHMSA annual reports?

**Q17 Reference**

WAC 480-93-200(6)(a)

**Q17 Notes**

No such reports this inspection cycle.

**Question 18**

Was annual report on construction defects or material failures submitted?

**Q18 Reference**

WAC 480-93-200(6)(c)

**Q18 Notes**

No such reports this inspection cycle.

**Question 19**

Was a copy of DOT Drug and Alcohol Testing MIS Data Collection Form submitted when required? (May not apply to certain smaller systems)

**Q19 Reference**

WAC 480-93-200(13)

**Q19 Notes**

Not required for this type of operator.

**Question 20**

Was a Safety Related Condition Report (SRCR) filed within 5 days of determination, but not later than 10 days after discovery of the condition??

**Q20 Reference**

49 CFR 191.25

**Q20 Notes**

No such reports this inspection cycle.

**Question 21**

Were new customers notified, within 90 days, of their responsibility for those service lines not maintained by the operator?

**Q21 Reference**

49 CFR 192.16

**Q10 Result**

Not Applicable

**Q11 Result**

Not Applicable

**Q12 Result**

Not Applicable

**Q13 Result**

Not Applicable

**Q14 Result**

Not Applicable

**Q15 Result**

Not Applicable

**Q16 Result**

Not Applicable

**Q17 Result**

Not Applicable

**Q18 Result**

Not Applicable

**Q19 Result**

Not Applicable

**Q20 Result**

Not Applicable

**Q21 Result**

Not Applicable

**Q21 Notes**

No such reports this inspection cycle.

**Question 22**

Do any installed Excess Flow Valves (EFV) meet the performance standards prescribed under 192.381?

**Q22 Reference**

49 CFR 192.381

**Q22 Result**

Not Applicable

**Q22 Notes**

No such reports this inspection cycle.

**Question 23**

Does the operator have a voluntary installation program for excess flow valves and does the program meet the requirements outlined in 192.383? Are records adequate?

**Q23 Reference**

49 CFR 192.383

**Q23 Result**

Not Applicable

**Q23 Notes**

Operator is not required to meet this requirement.

**Question 24**

If no voluntary program for EFV installations, are customers notified in accordance with 192.383? Are records adequate?

**Q24 Reference**

49 CFR 192.383

**Q24 Result**

Not Applicable

**Q24 Notes**

No such reports this inspection cycle.

## ▼ NFPA 58: CONTAINER REQUIREMENTS

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**Question 25**

Are containers designed, fabricated, tested, and marked (or stamped) in accordance with the regulations of the U.S. Department of Transportation (DOT), the ASME Boiler and Pressure Vessel Code, Section VIII, "Rules for the Construction of Unfired Pressure Vessels," or the API-ASME Code for Unfired Pressure Vessels for Petroleum Liquids and Gases, except for UG-125 through UG-136?

**Q25 Reference**

NFPA58 5.2.1.1

**Q25 Result**

Satisfactory

**Q25 Notes****Question 26**

Is the DOT cylinder tank qualification date current or does it have a current re-qualification date? Cylinder shall not be refilled until requalified.

**Q26 Reference**

NFPA58 5.2.2.2

**Q26 Result**

Satisfactory

**Q26 Notes****Question 27**

DOT Cylinder - Is the minimum design or service pressure in accordance with 49 CFR (240 psig or more service pressure, as referenced in Annex C.2.2.3)?

**Q27 Reference**

NFPA58 5.2.4.1

**Q27 Result**

Satisfactory

**Q27 Notes****Question 28**

Are ASME containers (30-2,000 gal) that are designed to be filled volumetrically, equipped for filling into the vapor space?

**Q28 Reference**

NFPA58 5.2.5.3

**Q28 Result**

Satisfactory

**Q28 Notes****Question 29**

Are ASME containers (125-2,000 gal) that were manufactured after July 1, 1961 provided with a 3/4-inch or larger connection for liquid evacuation?

**Q29 Reference**

NFPA58 5.2.5.4

**Q29 Result**

Satisfactory

**Q29 Notes****Question 30**

Are ASME containers of more than 2,000 gal equipped with an opening for a pressure gauge?

**Q30 Reference**

NFPA58 5.2.5.5

**Q30 Result**

Not Applicable

**Q30 Notes**

No such facility at this location.

**Question 31**

Are connections for safety relief devices located and installed in such a way as to have direct communication with the vapor space?

**Q31 Reference**

NFPA58 5.2.5.6

**Q31 Result**

Satisfactory

**Q31 Notes****Question 32**

Are ASME containers that are designed to be filled on a volumetric basis and were manufactured after December 31, 1965 equipped with a fixed maximum liquid level gauge?

**Q32 Reference**

NFPA58 5.2.5.7

**Q32 Result**

Satisfactory



**Q32 Notes****Question 33**

Are the markings specified for ASME containers on a stainless steel metal nameplate attached to the container, and located to remain visible after the container is installed?

**Q33 Reference**

NFPA58 5.2.8.3

**Q33 Result**

Satisfactory

**Q33 Notes****Question 34**

Is nameplate attached in such a way as to minimize corrosion of the nameplate or its fasteners and not contribute to corrosion of the container?

**Q34 Reference**

NFPA58 5.2.8.3 (A)

**Q34 Result**

Satisfactory

**Q34 Notes****Question 35**

Where the container is buried or otherwise covered so the nameplate is obscured, is the information contained on the nameplate duplicated and installed on adjacent piping or a structure in a clearly visible location?

**Q35 Reference**

NFPA58 5.2.8.3 (B)

**Q35 Result**

Not Applicable

**Q35 Notes**

No such condition for this location.

**Question 36**

Are ASME containers marked with the following information: Service for which the container is designed (for example, underground, aboveground, or both)?

**Q36 Reference**

NFPA58 5.2.8.3 (1)

**Q36 Result**

Satisfactory

**Q36 Notes****Question 37**

Is name and address of container supplier or trade name of container on nameplate?

**Q37 Reference**

NFPA58 5.2.8.3 (2)

**Q37 Result**

Satisfactory

**Q37 Notes****Question 38**

Does the nameplate list the water capacity of container in pounds or gallons?

**Q38 Reference**

NFPA58 5.2.8.3 (3)

**Q38 Result**

Satisfactory

**Q38 Notes****Question 39**

Does the nameplate list the Maximum Allowable Working Pressure (MAWP) in pounds per square inch?

**Q39 Reference**

NFPA58 5.2.8.3 (4)

**Q39 Result**

Satisfactory

**Q39 Notes****Question 40**

Does the plate contain the wording "This container shall not contain a product that has a vapor pressure in excess of \_\_\_\_ psig at 110 degrees Fahrenheit" (See table 5.2.4.2)

**Q40 Reference**

NFPA58 5.2.8.3 (5)

**Q40 Result**

Satisfactory

**Q40 Notes****Question 41**

Is the outside surface in square feet indicated?

**Q41 Reference**

NFPA58 5.2.8.3 (6)

**Q41 Result**

Satisfactory

**Q41 Notes****Question 42**

Is the year of manufacture indicated?

**Q42 Reference**

NFPA58 5.2.8.3 (7)

**Q42 Result**

Satisfactory

**Q42 Notes****Question 43**

Is the shell thickness and head thickness noted?

**Q43 Reference**

NFPA58 5.2.8.3 (8)

**Q43 Result**

Satisfactory

**Q43 Notes**

**Question 44**

Is OL (Overall Length), OD (Outside Diameter), HD (Head Design) indicated?

**Q44 Reference**

NFPA58 5.2.8.3 (9)

**Q44 Notes****Q44 Result**

Satisfactory

**Question 45**

Is the manufacturer's serial number indicated?

**Q45 Reference**

NFPA58 5.2.8.3 (10)

**Q45 Notes****Q45 Result**

Satisfactory

**Question 46**

Is the ASME code symbol shown?

**Q46 Reference**

NFPA58 5.2.8.3 (11)

**Q46 Notes****Q46 Result**

Satisfactory

**Question 47**

Are the minimum design metal Temperature \_\_\_\_ degrees Fahrenheit at MAWP \_\_\_\_ psi shown?

**Q47 Reference**

NFPA58 5.2.8.3 (12)

**Q47 Notes****Q47 Result**

Satisfactory

**Question 48**

Is the type of Construction "W" indicated?

**Q48 Reference**

NFPA58 5.2.8.3 (13)

**Q48 Notes****Q48 Result**

Satisfactory

**Question 49**

Is the degree of radiography "RT-\_\_\_\_" shown?

**Q49 Reference**

NFPA58 5.2.8.3 (14)

**Q49 Notes****Q49 Result**

Satisfactory

**Question 50**

Do containers of less than or equal to 2000 gallons water capacity comply with Table 5.7.7.1?

**Q50 Reference**

NFPA58 5.7.7.1

**Q50 Notes****Q50 Result**

Satisfactory

**Question 51**

For containers applicable to Q50 above, note the following:

- (A) The requirement for internal spring-type pressure relief valves that are shown in Table 5.7.7.1 for stationary ASME containers up to and including 4000 gal (15.2 m<sup>3</sup>) water capacity shall not apply to underground containers where external pressure relief valves are permitted or to containers that were originally equipped with external pressure relief valves.  
 (B) Containers of 125 gal through 4000 gal (0.5 m<sup>3</sup> through 15.2 m<sup>3</sup>) water capacity shall be provided with an actuated liquid withdrawal excess-flow valve with a connection not smaller than 3/4-in. national pipe thread.  
 (C) An actuated liquid withdrawal excess-flow valve shall not be required on container connections equipped for liquid withdrawal with a positive shutoff valve that is located as close to the container as practical in combination with an excess-flow valve installed in the container connection.  
 (D) The actuated liquid withdrawal excess flow valve shall not be connected for continuous use unless the valve is recommended by the manufacturer for such service.  
 (E) An overfilling prevention device shall not be required for engine fuel cylinders used on industrial (and forklift) trucks powered by LP-Gas or for engine fuel cylinders used on vehicles (including floor maintenance machines) having LP-Gas-powered engines mounted on them.  
 (F) Excess-flow protection shall not be required for manual shutoff valves for vapor service where an approved regulator is directly attached or attached with a flexible connector to the outlet of the manual shutoff valve for vapor service and the controlling orifice between the container contents and the shutoff valve outlet does not exceed in. (8 mm) in diameter.  
 (G) Overfilling prevention devices shall be required on cylinders having 4 lb through 40 lb (1.8 kg through 18 kg) propane capacity for vapor service. (See 5.7.6.)

**Q51 Reference**

NFPA58 5.7.7.1

**Q51 Notes****Q51 Result**

Satisfactory

**Question 52**

Are ASME containers over 4000 gal (15.2 m<sup>3</sup>) water capacity equipped in accordance with 5.7.7.2(A) through 5.7.7.2(G) and Table 5.7.7.3.?

Note: Also refer to table 5.7.7.3.

A) Vapor withdrawal openings shall be equipped with either of the following:

- (1) A positive shutoff valve located as close to the container as practical in combination with an excess-flow valve installed in the container  
 (2) An internal valve

(B) Liquid withdrawal openings in new installations shall be equipped with an internal valve that is fitted for remote closure and automatic shutoff using thermal (fire) actuation where the thermal element is located within 5 ft (1.5 m) of the internal valve.

(C) Liquid withdrawal openings in existing installations where the container is equipped with an internal valve that is not fitted for remote closure and automatic shutoff using thermal (fire) actuation shall be equipped for remote and thermal closure by July 1, 2003.

(D) Liquid withdrawal openings in existing installations shall be equipped with either of the following by July 1, 2011:

- (1) An internal valve that is fitted for remote closure and automatic shutoff using thermal (fire) actuation where the thermal element is located within 5 ft (1.5 m) of the internal valve  
 (2) An emergency shutoff valve that is installed in the line downstream as close as practical to a positive shutoff valve in combination with an excess flow valve installed in the container

(E) Vapor inlet openings shall be equipped with either of the following:

- (1) A positive shutoff valve that is located as close to the container as practical in combination with either a backflow check valve or excess-flow valve installed in the container  
 (2) An internal valve

(F) Liquid inlet openings in new installations shall be equipped with either of the following:

- (1) An internal valve that is fitted for remote closure and automatic shutoff using thermal (fire) actuation where the thermal element is located within 5 ft (1.5 m) of the internal valve  
 (2) A positive shutoff valve that is located as close to the container as practical in combination with a backflow check valve that is designed for the intended application and is installed in the container

- (G) Liquid inlet openings in existing installations where the container is equipped with an internal valve that is not fitted for remote closure and automatic shutoff using thermal (fire) actuation shall be equipped for remote and thermal closure by July 1, 2003.
- (H) Liquid inlet openings in existing installations shall be equipped with any of the following by July 1, 2011:
  - (1) An internal valve that is fitted for remote closure and automatic shutoff using thermal (fire) actuation where the thermal element is located within 5 ft (1.5 m) of the internal valve
  - (2) An emergency shutoff valve that is installed in the line upstream as close as practical to a positive shutoff valve in combination with an excess flow valve installed in the container
  - (3) A positive shutoff valve that is located as close to the container as practical in combination with a backflow check valve that is designed for the intended application and is installed in the container
  - (4) A backflow check valve that is designed for the intended application and is installed in the line upstream as close as practical to a positive shutoff valve in combination with an excess-flow valve installed in the container
- (I) Container openings that are not compatible with internal valves shall be permitted to utilize both an excess flow valve installed in the container and a valve complying with API 607, Fire Test for Soft-Seated Quarter Turn Ball Valves, with the following features:
  - (1) The valve shall be activated either hydraulically or pneumatically and shall fail in the closed position.
  - (2) The valve shall be equipped for remote closure and thermal actuation with a thermal element located within 5 ft of the valve.

**Q52 Reference**  
NFPA58 5.7.7.2

**Q52 Result**  
Not Applicable

**Q52 Notes**  
No such facilities at this location.

**Question 53**

Are appurtenances used on inlet and outlet connections of containers larger than 2000 gallons water capacity through 4000 gallons water capacity in accordance with Table 5.7.7.1? Are appurtenance requirements for inlet and outlet connections of containers in bulk plant and industrial plant service in accordance with Table 5.7.7.3?

Note: Refer to tables.

**Q53 Reference**  
NFPA58 5.7.7.3

**Q53 Result**  
Not Applicable

**Q53 Notes**  
No such facilities at this location.

**Question 54**

Are ASME containers over 4,000 gal equipped with appurtenances according to: 5.7.7.4?

**Q54 Reference**  
NFPA58 5.7.7.4

**Q54 Result**  
Not Applicable

**Q54 Notes**  
No such facilities at this location.

**Question 55**

Are container openings equipped with one of the following:

- (1) A positive shutoff valve in combination with either an excess-flow check valve or a backflow check valve, plugged
- (2) An internal valve, plugged
- (3) A backflow check valve, plugged
- (4) An actuated liquid withdrawal excess-flow valve, normally closed and plugged, with provision to allow for external actuation
- (5) A plug, blind flange, or plugged companion flange

**Q55 Reference**  
NFPA58 5.7.10.1

**Q55 Result**  
Satisfactory

**Q55 Notes**

**NFPA 58 GENERAL REQUIREMENTS**

**Question 56**

Do container(s) show excessive denting, bulging, gouging or corrosion? If yes, container should be removed from service.

**Q56 Reference**  
NFPA58 5.2.1.4

**Q56 Result**  
Satisfactory

**Q56 Notes**

**Question 57**

Is the above ground container(s) orientated so that their longitudinal axis does not point towards other containers, flammable liquid or gas tanks. \*NFPA 59 requirement only

**Q57 Reference**  
NFPA58 5.4.1.5

**Q57 Result**  
Satisfactory

**Q57 Notes**

**Question 58**

Are container appurtenances fabricated of materials that are compatible with LP-Gas and resistant to the action of LP-Gas under service conditions? The following may not be used: (1) Grey cast iron, (2) Nonmetallic materials shall not be used for bonnets or bodies of valves of regulators

**Q58 Reference**  
NFPA58 5.7.1.1

**Q58 Result**  
Satisfactory

**Q58 Notes**

**Question 59**

Are gaskets used to retain LP-Gas in containers resistant to the action of LP-Gas and made of metal or other suitable material having a melting point over 1,500 degrees Fahrenheit? Note: Gaskets for use with approved or listed liquid level gauges for installation on a container of 3500 gal water capacity or less are exempt from the minimum melting point requirement.

**Q59 Reference**  
NFPA58 5.7.1.4 (A)

**Q59 Result**  
Satisfactory

**Q59 Notes**

**Question 60**

If the flange is opened, is the gasket replaced?

**Q60 Reference**  
NFPA58 5.7.1.4 (B)

**Q60 Result**  
Satisfactory

**Q60 Notes**

**Question 61**

Are there aluminium O-rings and spiral wound metal gaskets? (Use of these types of gaskets is permitted--annotate type in notes column, as applicable)

**Q61 Reference**

NFPA58 5.7.1.4 (C)

**Q61 Result**

Not Applicable

**Q61 Notes**

No such facilities at this location.

**Question 62**

Are there gaskets for use with approved or listed liquid level gauges on a container of 3500 gal (13.2 m<sup>3</sup>) water capacity or less? If so, they shall be exempt from the minimum melting point requirement.

**Q62 Reference**

NFPA58 5.7.1.4 (D)

**Q62 Result**

Not Applicable

**Q62 Notes**

No such facilities at this location.

**Question 63**

Are ASME containers equipped with one or more pressure relief valves designed to relieve vapor?

**Q63 Reference**

NFPA58 5.7.2.1

**Q63 Result**

Satisfactory

**Q63 Notes****Question 64**

Are ASME containers for LP-Gas equipped with direct spring-loaded pressure relief valves conforming with applicable requirements of UL 132, Standard on Safety Relief Valves for Anhydrous Ammonia and LP-Gas, or other equivalent pressure relief valve standards?

**Q64 Reference**

NFPA58 5.7.2.4 (A)

**Q64 Result**

Satisfactory

**Q64 Notes****Question 65**

Is the minimum rate of discharge of pressure relief valves in accordance with Table 5.7.2.5 or calculated using the following formula:

[Flow Rate (ft<sup>3</sup>/min air) = 53.632 x A to the power of 0.82 where:  
A = total outside surface area of container in square feet]

**Q65 Reference**

NFPA58 5.7.2.5

**Q65 Result**

Satisfactory

**Q65 Notes****Question 66**

For ASME containers, is the pressure relief valve plainly and permanently marked with the pressure (psig) at which the valve is set to start-to-leak

**Q66 Reference**

NFPA58 5.7.2.8 (1)

**Q66 Result**

Satisfactory

**Q66 Notes****Question 67**

Is the rated relieving capacity in cubic feet per minute of air at 60 degrees Fahrenheit? (16 degrees celsius and 14.7 psia (101 kPa)?)

**Q67 Reference**

NFPA58 5.7.2.8 (2)

**Q67 Result**

Satisfactory

**Q67 Notes****Question 68**

Is the manufacturer's name and catalog number indicated?

**Q68 Reference**

NFPA58 5.7.2.8 (3)

**Q68 Result**

Satisfactory

**Q68 Notes****Question 69**

If shut-off valves are installed between the container and pressure relief, is a listed pressure relief valve manifold that meets the requirements of 6.7.2.9 also used? If not, shut off valves shall not be installed between the container and pressure relief devices.?

**Q69 Reference**

NFPA58 5.7.2.9

**Q69 Result**

Not Applicable

**Q69 Notes**

No such facilities at this location.

**Question 70**

Are pressure relief devices designed to minimize tampering?

**Q70 Reference**

NFPA58 5.7.2.10

**Q70 Result**

Satisfactory

**Q70 Notes****Question 71**

If pipe or tubing is used to vent regulators, is it compliant with the following: Metal pipe and tubing in accordance with 5.8.3 (5.7.5.1(1)) or PVC meeting the requirements of UL 651, Schedule 40 or 80 Rigid PVC Conduit (5.7.5.1(2))?

**Q71 Reference**

NFPA58 5.7.5.1

**Q71 Result**

Not Applicable

**Q71 Notes**

No such facilities at this location.

**Question 72**

Do Liquid Level Gauging Devices comply with the following?

5.7.8.1 Liquid level gauging devices shall be installed on all containers filled by volume.

5.7.8.2 The gauging devices shall be either fixed maximum liquid level gauges or variable gauges of the slip tube, rotary, or float types (or combinations of such gauges).

5.7.8.3\* Every container designed to be filled on a volumetric basis shall be equipped with a fixed maximum liquid level gauge(s) to indicate the maximum filling level(s) for the service(s) in which the container is to be filled or used (see 7.4.3.3)

**Q72 Reference**

NFPA58 5.7.8

**Q72 Result**

Satisfactory

**Q72 Notes****Question 73**

Are pressure gauges attached directly to the container opening or to a valve or fitting that is directly attached to the container opening? Attachments not in compliance with this standard are not authorized.

**Q73 Reference**

NFPA58 5.7.9.1

**Q73 Result**

Satisfactory

**Q73 Notes****Question 74**

Are shutoff valves located as close to the container as practical and readily accessible for operation and maintenance under normal and emergency conditions? Are valves, regulators, gauges, and other container appurtenances protected against physical damage?

**Q74 Reference**

NFPA58 5.7.11

**Q74 Result**

Satisfactory

**Q74 Notes****Question 75**

Is pipe and tubing of the proper materials: [steel (black or galvanized), brass, copper, polyethylene or polyamide]? Do materials comply with 5.8.3.1?

**Q75 Reference**

NFPA58 5.8.3.1

**Q75 Result**

Satisfactory

**Q75 Notes****Question 76**

Are fittings of the proper materials: [steel (black or galvanized), brass, copper, malleable iron or ductile/nodular iron]? Do materials comply with 5.8.4.1?

**Q76 Reference**

NFPA58 5.8.4

**Q76 Result**

Satisfactory

**Q76 Notes****Question 77**

Are joints in polyamide and polyethylene pipe and polyethylene tubing made by heat fusion, by compression-type mechanical fittings, or by factory-assembled transition fittings?

**Q77 Reference**

NFPA58 5.8.5

**Q77 Result**

Satisfactory

**Q77 Notes****Question 78**

Are hose, hose connections, and flexible connectors fabricated of materials that are resistant to the action of LP-Gas both as liquid and vapor?

(A) If wire braid is used for reinforcement, it shall be of corrosion-resistant material such as stainless steel.

(B) Hose shall be designed for a working pressure of 350 psig (2.4 MPag) with a safety factor of 5 to 1 and shall be continuously marked with LP-GAS, PROPANE, 350 PSI WORKING PRESSURE, and with the manufacturer's name or trademark.

(C) Hose assemblies, after the application of couplings, shall have a design capability of not less than 700 psig (4.8 MPag).

**Q78 Reference**

NFPA58 5.8.6

**Q78 Result**

Not Applicable

**Q78 Notes**

No such facilities at this location.

**Question 79**

Are pressure-containing metal parts of valves of steel, ductile (nodular) iron, malleable iron, or brass? Are all materials used, including valve seat discs, packing, seals, and diaphragms, resistant to the action of LP-Gas under service conditions? Are emergency shutoff valves approved and incorporate all of the following means of closing:

(1) Automatic shutoff through thermal (fire) actuation

(2) Manual shutoff from a remote location

(3) Manual shutoff at the installed location

If fusible elements are used, do they have a melting point not exceeding 250°F (121°C).

Are valves in polyethylene piping systems manufactured from thermoplastic materials listed in ASTM D 2513, Standard Specification for Thermoplastic Gas Pressure Pipe, Tubing and Fittings, and have been shown to be resistant to the action of LP-Gas and comply with ASTM D 2513? Are metallic valves in polyethylene and polyamide piping systems protected to minimize corrosion in accordance with 6.14?

**Q79 Reference**

NFPA58 5.10

**Q79 Result**

Satisfactory

**Q79 Notes****Question 80**

Do hydrostatic relief valves installed in sections of liquid piping between closed shutoff valves have pressure settings not less than 400 psig (2.8 MPag) or more than 500 psig (3.5 MPag)?

**Q80 Reference**

NFPA58 5.11

**Q80 Result**

Not Applicable

**Q80 Notes**

No such facilities at this location.

**Question 81**

Is equipment such as pumps, compressors, vaporizers, and strainers suitable for the appropriate working pressures? (see table in 5.15.1.2)

**Q81 Reference**

NFPA58 5.15.1.2

**Q81 Notes**

No such facilities at this location.

**Question 82**

Are LPG meters (vapor) operated at the proper design working pressure and marked?

**Q82 Reference**

NFPA58 5.15.5.2

**Q82 Notes****Question 83**

Are above ground tanks positioned no closer than 3 feet apart (for containers up to 2,000 gal) and 5 feet apart (for containers of 2,001 gallons or more)?

**Q83 Reference**

NFPA58 6.3.1

**Q83 Notes****Question 84**

Are above ground tanks of 501 gallons to 2,000 gallons at a minimum 25 feet away from buildings?

**Q84 Reference**

NFPA58 6.3.3

**Q84 Notes****Question 85**

Are underground tanks of 2,000 gallons to 30,000 gallons at a minimum of 10 feet away from other tanks?

**Q85 Reference**

NFPA58 6.3.4

**Q85 Notes**

No such facilities at this location.

**Question 86**

Is any part of an underground ASME container within 10 feet from a building or line of adjoining property? (All parts must be 10 feet or greater)

**Q86 Reference**

NFPA58 6.3.4.2

**Q86 Notes**

No such facilities at this location.

**Question 87**

Are all parts of a mounded ASME container installed above grade at least 5 feet from a building or line of adjoining property that can be built upon?

**Q87 Reference**

NFPA58 6.3.4.3

**Q87 Notes**

No such facilities at this location.

**Question 88**

If cylinders are installed alongside of buildings, are they positioned so that the discharge from the cylinder pressure relief device is located at least 3 feet away from any building opening and at least 5 feet in any direction away from any exterior source of ignition, openings into direct-vent (sealed combustion system) appliances, or mechanical ventilation air-intakes?

**Q88 Reference**

NFPA58 6.3.7.1 / 6.3.7.2

**Q88 Notes**

No such facilities at this location.

**Question 89**

If a DOT cylinder is located or installed under a building, is at least 50% of its perimeter open to the atmosphere?

**Q89 Reference**

NFPA58 6.3.8

**Q89 Notes**

No such facilities at this location.

**Question 90**

If there is more than one row of containers installed, are the adjacent ends of the containers in each row separated by no less than 10 feet?

**Q90 Reference**

NFPA58 6.4.4.5

**Q90 Notes**

No such facilities at this location.

**Question 91**

Is loose or piled combustible material, weeds or long dry grass separated from containers by a minimum of 10 ft?

**Q91 Reference**

NFPA58 6.4.5.2

**Q91 Notes****Question 92**

Is there a minimum horizontal separation of at least 20-ft between above ground LP-gas containers and above ground tanks containing liquids with a flash point below 200F?

**Q92 Reference**

NFPA58 6.4.5.5

**Q81 Result**

Not Applicable

**Q82 Result**

Satisfactory

**Q83 Result**

Satisfactory

**Q84 Result**

Satisfactory

**Q85 Result**

Not Applicable

**Q86 Result**

Not Applicable

**Q87 Result**

Not Applicable

**Q88 Result**

Not Applicable

**Q89 Result**

Not Applicable

**Q90 Result**

Not Applicable

**Q91 Result**

Satisfactory

**Q92 Result**

Not Applicable

**Q92 Notes**

No such facilities at this location.

**Question 93**

Are all portions of above ground containers located at least a minimum of six feet of a vertical plane beneath overhead power lines that are 600 volts nominal?

**Q93 Reference**

NFPA58 6.4.5.12

**Q93 Result**

Not Applicable

**Q93 Notes**

No such facilities at this location.

**Question 94**

Are structures such as fire walls, fences, earth or concrete barriers, and other similar structures not permitted around or over installed non-refrigerated containers? Note: Exceptions as follows:

- (1) Structures partially enclosing containers shall be permitted if designed in accordance with a sound fire protection analysis.
- (2) Structures used to prevent flammable or combustible liquid accumulation or flow shall be permitted in accordance with 6.4.5.3.
- (3) Structures between LP-Gas containers and gaseous hydrogen containers shall be permitted in accordance with 6.4.5.9.
- (4) Structures such as fences shall be permitted in accordance with 6.16.5.

**Q94 Reference**

NFPA58 6.4.5.12

**Q94 Result**

Not Applicable

**Q94 Notes**

No such facilities at this location.

**Question 95**

Are containers positioned so that the pressure relief valve is in direct communication with the vapor space of the container?

**Q95 Reference**

NFPA58 6.6.1.1

**Q95 Result**

Satisfactory

**Q95 Notes****Question 96**

Are above ground containers protected from traffic/vehicles?

**Q96 Reference**

NFPA58 6.6.1.2

**Q96 Result**

Satisfactory

**Q96 Notes****Question 97**

Are above ground containers painted?

**Q97 Reference**

NFPA58 6.6.1.4

**Q97 Result**

Satisfactory

**Q97 Notes****Question 98**

Are above ground or mounded containers securely anchored where necessary, to prevent flotation due to possible high flood waters or a high water table?

**Q98 Reference**

NFPA58 6.6.1.6

**Q98 Result**

Satisfactory

**Q98 Notes****Question 99**

Are installed cylinders kept out of direct contact with the soil?

**Q99 Reference**

NFPA58 6.6.2.1

**Q99 Result**

Satisfactory

**Q99 Notes****Question 100**

Does DOT flexible piping connected to any cylinder comply with 6.8.7?

**Q100 Reference**

NFPA58 6.8.7

**Q100 Result**

Not Applicable

**Q100 Notes**

No such facilities at this location.

**Question 101**

Are containers designed for permanent installation in stationary service above ground placed on masonry or other noncombustible structural supports located on concrete or masonry foundations with the container supports?

- (A) Where saddles are used to support the container, do they allow for expansion and contraction and prevent an excessive concentration of stresses?
- (B) Where structural steel supports are used, do they shall comply with 6.6.3.3

**Q101 Reference**

NFPA58 6.6.3.1

**Q101 Result**

Satisfactory

**Q101 Notes****Question 102**

If there is a noninterchangeable underground container where vehicle traffic is expected, is the container installed at least 18-inches below grade or protected from vehicle damage?

**Q102 Reference**

NFPA58 6.6.6.1(B)

**Q102 Result**

Not Applicable

**Q102 Notes**

No such facilities at this location.

**Question 103**

If there is an underground or mounded container, is the regulator vent discharge installed above the highest probable water level?

**Q103 Reference**  
NFPA58 6.6.6.1 (H)

**Q103 Result**  
Not Applicable

**Q103 Notes**  
No such facilities at this location.

**Question 104**

If there is a mounded tank, is there at least 1-ft of cover over the tank?

**Q104 Reference**  
NFPA58 6.6.6.3

**Q104 Result**  
Not Applicable

**Q104 Notes**  
No such facilities at this location.

**Question 105**

If there is a mounded tank, are valves and other appurtenances accessible without removing any mounding material?

**Q105 Reference**  
NFPA58 6.6.6.3 (3)

**Q105 Result**  
Not Applicable

**Q105 Notes**  
No such facilities at this location.

**Question 106**

Are pressure relief devices installed so that the relief device is in direct communication with the vapor space of the container?

**Q106 Reference**  
NFPA58 6.7.2.1

**Q106 Result**  
Satisfactory

**Q106 Notes**

**Question 107**

Are there pressure relief devices installed on the cylinder(s) to minimize the possibility of relief device impingement on the cylinder?

**Q107 Reference**  
NFPA58 6.7.2.2

**Q107 Result**  
Satisfactory

**Q107 Notes**

**Question 108**

Are pressure relief devices on ASME containers installed so that any gas released is vented away from the container upward and unobstructed to the open air?

**Q108 Reference**  
NFPA58 6.7.2.3

**Q108 Result**  
Satisfactory

**Q108 Notes**

**Question 109**

Are rain caps or other means provided to minimize the possibility of the entrance of water or other extraneous matter into the relief device or any discharge piping? Are provision made for drainage where the accumulation of water is anticipated?

**Q109 Reference**  
NFPA58 6.7.2.4

**Q109 Result**  
Satisfactory

**Q109 Notes**

**Question 110**

Does the pressure relief valve drain opening provide protection against flame impingement?

**Q110 Reference**  
NFPA58 6.7.2.6

**Q110 Results**  
Satisfactory

**Q110 Notes**

**Question 111**

Is the pressure relief valve discharge on each aboveground container of more than 2000 gal (7.6 m<sup>3</sup>) water capacity piped vertically upward to a point at least 7 ft (2.1 m) above the top of the container, and the discharge opening unobstructed to the open air?

**Q111 Reference**  
NFPA58 6.7.2.7

**Q111 Result**  
Not Applicable

**Q111 Notes**  
No such facilities at this location.

**Question 112**

Has the operator ensured that there are no shutoff valves installed between relief devices and discharge piping?

**Q112 Reference**  
NFPA58 6.7.2.10

**Q112 Result**  
Not Applicable

**Q112 Notes**  
No such facilities at this location.

**Question 113**

For underground containers of 2000 gal or less, has the operator ensured that discharge piping from pressure relief valves extends beyond the manhole/housing? If discharging into a manhole/housing, is the manhole/housing equipped with louvers or equivalent devices in accordance with 5.7.11.4(H)?

**Q113 Reference**  
NFPA58 6.7.2.11

**Q113 Result**  
Not Applicable

**Q113 Notes**  
No such facilities at this location.

**Question 114**

If there is an underground tank, does the relief valve stack(s) extend 7-ft above the top of the ground?



**Q114 Reference**  
NFPA58 6.7.2.12

**Q114 Result**  
Not Applicable

**Q114 Notes**  
No such facilities at this location.

**Question 115**  
Has the operator ensured that any system serving ½ psig appliance systems contain either a two-stage regulator system, an integral two-stage regulator, OR a 2 psi regulator system?

**Q115 Reference**  
NFPA58 6.7.3

**Q115 Result**  
Not Applicable

**Q115 Notes**  
No such facilities at this location.

**Question 116**  
If the container has a high-pressure regulator (outlet pressure >10 psig) has the operator ensured that there a first-stage regulator between it and the second-stage regulator?

**Q116 Reference**  
NFPA58 6.7.3 (D)

**Q116 Result**  
Not Applicable

**Q116 Notes**  
No such facilities at this location.

**Question 117**  
If a high-pressure regulator on a container is rated for a capacity over 500,000 Btu/hr is there over-pressure protection for that regulator and any second-stage regulators?

**Q117 Reference**  
NFPA58 6.7.3 (E)

**Q117 Result**  
Not Applicable

**Q117 Notes**  
No such facilities at this location.

**Question 118**  
Are all first stage or high-pressure regulators located outside of buildings, except as provided in 6.7.4.3?

**Q118 Reference**  
NFPA58 6.7.4.3

**Q118 Result**  
Not Applicable

**Q118 Notes**  
No such facilities at this location.

**Question 119**  
Are all regulators for outdoor installations designed, installed, or protected so their operation will not be affected by the elements (freezing rain, sleet, snow, ice, mud, or debris)?

**Q119 Reference**  
NFPA58 6.7.4.4

**Q119 Result**  
Satisfactory

**Q119 Notes**

**Question 120**  
Is the regulator relief vent located not less than 3 ft (1 m) horizontally away from any building opening below the level of such discharge, and not enclosed for more than 50 percent of its perimeter?

**Q120 Reference**  
NFPA58 6.7.4.5

**Q120 Result**  
Satisfactory

**Q120 Notes**

**Question 121**  
Is the point of relief vent discharge located not less than 5 ft (1.5 m) in any direction away from any source of ignition, openings into direct-vent (sealed combustion system) appliances, or mechanical ventilation air intakes?

**Q121 Reference**  
NFPA58 6.7.4.6

**Q121 Result**  
Satisfactory

**Q121 Notes**

**Question 122**  
For regulators installed inside a building, does the vent location meet the requirements found in 6.7.4.8?

**Q122 Reference**  
NFPA58 6.7.4.8

**Q122 Result**  
Not Applicable

**Q122 Notes**  
No such facilities at this location.

**Question 123**  
Where condensation of vapor can occur, does piping slope back to the container? If not, does the operator provide a means for reevaporizing the condensate?

**Q123 Reference**  
NFPA58 6.8.3.8

**Q123 Result**  
Not Applicable

**Q123 Notes**  
No such facilities at this location.

**Question 124**  
Does the operator ensure that piping systems that interconnect permanently installed containers compensate for expansion, contraction, jarring, vibration and settling?

**Q124 Reference**  
NFPA58 6.8.3.9

**Q124 Result**  
Not Applicable

**Q124 Notes**  
No such facilities at this location.

**Question 125**  
Does the operator ensure that if piping is used to permanently interconnect containers, the piping used must not be nonmetallic pipe, tubing, or hose?

**Q125 Reference**

**Q125 Result**

NFPA58 6.8.3.9 (B)

Not Applicable

**Q125 Notes**

No such facilities at this location.

**Question 126**

Is the aboveground piping supported properly and protected against vehicle damage?

**Q126 Reference**

NFPA58 6.8.3.10

**Q126 Result**

Satisfactory

**Q126 Notes****Question 127**

Is aboveground piping kept out of contact with a corrosion-causing substance?

**Q127 Reference**

NFPA58 6.8.3.11

**Q127 Result**

Satisfactory

**Q127 Notes****Question 128**

Has the operator ensured that all polyethylene/polyamide piping is only installed outdoors and underground?

**Q128 Reference**

NFPA58 6.8.4.1

**Q128 Result**

Satisfactory

**Q128 Notes****Question 129**

Does the operator ensure that only assembled anodeless risers are used to terminate underground polyethylene and polyamide pipeline systems aboveground? Do riser installations meet the requirements in 6.8.4.3?

**Q129 Reference**

NFPA58 6.8.4.3

**Q129 Result**

Satisfactory

**Q129 Notes****Question 130**

Is an electrically continuous corrosion-resistant tracer wire (min. AWG 14) or tape buried with any polyethylene piping installed underground?

**Q130 Reference**

NFPA58 6.8.4.6

**Q130 Result**

Satisfactory

**Q130 Notes****Question 131**

Is any polyethylene piping installed in a vault or underground enclosure encased in a gas-tight casing with fittings that protect from corrosion?

**Q131 Reference**

NFPA58 6.8.4.7

**Q131 Result**

Not Applicable

**Q131 Notes**

No such facilities at this location.

**NFPA 58 VAPORIZER REQUIREMENTS****Question 132**

Are indirect-fired vaporizers installed outdoors, or in separate buildings or structures that comply with Section 10.2, or in attached structures or rooms that comply with Section 10.3? If a building or structure is used, does it have any unprotected drains to sewers or sump pits? Are the pressure relief valves on vaporizers within buildings piped to a point outside the building or structure and discharged vertically upward?

**Q132 Reference**

NFPA58 6.9.2

**Q132 Result**

Not Applicable

**Q132 Notes**

No such facilities at this location.

**Question 133**

If a direct-fired vaporizer is installed in a separate structure, is the separate structure constructed in accordance with Chapter 10? Does the housing for direct-fired vaporizers not have any drains to a sewer or a sump pit that is shared with any other structure? Does the pressure relief valve discharges on direct-fired vaporizers piped to a point outside the structure or building? Is the direct-fired vaporizers connected to the liquid space or to the liquid and vapor space of the ASME container? 6.19.3.5 A manually operated shutoff valve shall be installed in each connection of the ASME container supplying the vaporizer.

**Q133 Reference**

NFPA58 6.9.3

**Q133 Result**

Not Applicable

**Q133 Notes**

No such facilities at this location.

**Question 134**

Are emergency remote shutdown stations identified by a sign, visible from the point of transfer, incorporating the words "Propane - Container Liquid Valve Emergency Shutoff" in block letters of not less than 2 in. (51 mm) in height on a background of contrasting colors to the letters?

**Q134 Reference**

NFPA58 6.9.5

**Q134 Result**

Not Applicable

**Q134 Notes**

No such facilities at this location.

**Question 135**

Are emergency shutoff valves and backflow check valves required by the code tested annually, and are the results of the test documented?

**Q135 Reference**

NFPA58 6.10.9

**Q135 Result**

Not Applicable

**Q135 Notes**

No such facilities at this location.

**Question 136**

Do all emergency shutoff valves comply with the following? (1) Each emergency shutoff valve shall have at least one clearly identified and easily accessible manually operated remote emergency shutoff device. (2) The shutoff device shall be located not less than 25 ft (7.6 mm) or more than 100 ft (30.5 m) in the path of egress from the emergency shutoff valve.

**Q136 Reference**  
NFPA58 6.10.10

**Q136 Result**  
Not Applicable

**Q136 Notes**

No such facilities at this location.

**Question 137**

Are hydrostatic relief valves, or a device providing pressure-relieving protection, installed in each section of piping and hose in which liquid LP-Gas can be isolated between shutoff valves so as to relieve the pressure that could develop from the trapped liquid to a safe atmosphere or product-retaining section?

**Q137 Reference**  
NFPA58 6.11

**Q137 Result**  
Not Applicable

**Q137 Notes**

No such facilities at this location.

**Question 138**

In areas where heavy snowfall is anticipated, are the piping, regulators, meters, and other equipment protected from accumulated snow?

**Q138 Reference**  
NFPA58 6.13

**Q138 Result**  
Not Applicable

**Q138 Notes**

No such facilities at this location.

**Question 139**

Are strainers installed so that the strainer element can be removed without removing equipment or piping?

**Q139 Reference**  
NFPA58 6.15.4

**Q139 Result**  
Not Applicable

**Q139 Notes**

No such facilities at this location.

**Question 140**

Are LPG vapor meters installed so as to minimize the possibility of physical damage?

**Q140 Reference**  
NFPA58 6.15.5.3

**Q140 Result**  
Not Applicable

**Q140 Notes**

No such facilities at this location.

**Question 141**

Is the facility area enclosed with at least a 6 ft (1.8 m) high industrial-type fence, chain link fence, or equivalent protection? Is there at least two means of emergency egress from the enclosure except as follows:

(1) The fenced or otherwise enclosed area is not over 100 ft<sup>2</sup> (9 m<sup>2</sup>)

(2) The point of transfer is within 3 ft (1 m) of the gate

(3) Containers are not filled within the enclosure Is clearance of at least 3 ft (1 m) provided to allow emergency access to the required means of egress.

Note: Fencing shall not be required where devices that can be locked in place are provided that prevent unauthorized operation of valves, equipment, and appurtenances.

**Q141 Reference**  
NFPA58 6.16.5.2

**Q141 Result**  
Not Applicable

**Q141 Notes**

No such facilities at this location.

## INDIRECT-FIRED/ELECTRIC VAPORIZERS

**Question 142**

If any indirect-fired vaporizers are installed in a building do they comply with section 10.2 or 10.3?

**Q142 Reference**  
NFPA58 6.19.2.1

**Q142 Result**  
Not Applicable

**Q142 Notes**

No such facilities at this location.

**Question 143**

Does the building or structure have any unprotected drains to sewer or sump pits?

**Q143 Reference**  
NFPA58 6.19.2.2

**Q143 Result**  
Not Applicable

**Q143 Notes**

No such facilities at this location.

**Question 144**

Does the operator ensure that any indirect-fired vaporizer pressure relief valves are piped to the outside of the building and are piped vertically upward?

**Q144 Reference**  
NFPA58 6.19.2.3

**Q144 Result**  
Not Applicable

**Q144 Notes**

No such facilities at this location.

**Question 145**

If the vaporizer heat source is gas-fired and located with 15 feet, does the system meet the requirements prescribed for direct-fired vaporizers (6.19.3)?

**Q145 Reference**  
NFPA58 6.19.2.4

**Q145 Result**  
Not Applicable

**Q145 Notes**

No such facilities at this location.

**Question 146**

Has the operator ensure that, all vaporizer gas-fired heat sources have an automatic safety device in accordance with 6.19.2.6?

**Q146 Reference**  
NFPA58 6.19.2.6

**Q146 Result**  
Not Applicable

**Q146 Notes**  
No such facilities at this location.

## **DIRECT-FIRED VAPORIZERS**

### **Question 147**

For direct-fired vaporizers in a separate structure, has the operator ensured it is compliant with the construction requirements in NFPA58 Chapter 10?

**Q147 Reference**  
NFPA58 6.19.3.1

**Q147 Result**  
Not Applicable

**Q147 Notes**  
No such facilities at this location.

### **Question 148**

Has the operator ensured that the housing for direct-fired vaporizers do not have any drains to a sewer or sump pit with another structure?

**Q148 Reference**  
NFPA58 6.19.3.2

**Q148 Result**  
Not Applicable

**Q148 Notes**  
No such facilities at this location.

### **Question 149**

Has the operator ensured that any pressure relief valves are piped to a point outside the structure or building?

**Q149 Reference**  
NFPA58 6.19.3.3

**Q149 Result**  
Not Applicable

**Q149 Notes**  
No such facilities at this location.

### **Question 150**

Has the operator ensured that the direct-fired vaporizer is connected to the liquid space or the liquid and vapor space of the ASME container?

**Q150 Reference**  
NFPA58 6.19.3.4

**Q150 Result**  
Not Applicable

**Q150 Notes**  
No such facilities at this location.

### **Question 151**

Has the operator ensured that there is a manual shutoff installed for each connection of the container that is supplying the vaporizer?

**Q151 Reference**  
NFPA58 6.19.3.5

**Q151 Result**  
Not Applicable

**Q151 Notes**  
No such facilities at this location.

### **Question 152**

For direct-fired vaporizers also see (6.19.4.5)

Is vaporizer 10 feet from container?  
Is vaporizer 15 feet from container shutoffs?  
Is vaporizer 15 feet from point of transfer (if transfer is within 15 feet, burner and pilot shut off when transferring liquid)?  
Is vaporizer 25 feet from nearest building or property line?

**Q152 Reference**  
NFPA58 6.19.3.6

**Q152 Result**  
Not Applicable

**Q152 Notes**  
No such facilities at this location.

### **Question 153**

For electrically heated waterbath vaporizers with electrical equipment designed for Class I, Group D locations, has the operator ensured that it is treated as indirect-fired and installed in accordance with 6.19.2.7, has the operator ensured that it is electrically heated, is electrical equipment Class I, Group D?

**Q153 Reference**  
NFPA58 6.19.6.1

**Q153 Result**  
Not Applicable

**Q153 Notes**  
No such facilities at this location.

### **Question 154**

For all other waterbath vaporizers, does the operator treat them as direct-fired and install them in accordance with 6.19.3?

**Q154 Reference**  
NFPA58 6.19.6.2

**Q154 Result**  
Not Applicable

**Q154 Notes**  
No such facilities at this location.

### **Question 155**

Is each industrial plant, bulk plant, and distributing point provided with at least one approved portable fire extinguisher having a minimum capacity of 18 lb (8.2 kg) of dry chemical with a B:C rating?

**Q155 Reference**  
NFPA58 6.23.4.2

**Q155 Result**  
Not Applicable

**Q155 Notes**  
No such facilities at this location.

### **Question 156**

Are emergency controls conspicuously marked, and the controls located so as to be readily accessible in emergencies?

**Q156 Reference**  
NFPA58 6.23.4.4

**Q156 Result**  
Not Applicable

**Q156 Notes**

No such facilities at this location.

## OPERATIONS & MAINTENANCE RECORDS

### Question 157

Does the pipeline system contain any underground piping that could be subject to the customer notification requirements of 192.16 (customer owned & downstream of a meter) ?

**Q157 Reference**  
49 CFR 192.16

**Q157 Result**  
Not Applicable

### Q157 Notes

No such facilities at this location.

### Question 158

Is pressure-limiting equipment set to operate so that the MAOP + allowable buildup pressure will not be exceeded? Is adequate consideration given to any buildup over the set pressure required to fully open each relief valve?

**Q158 Reference**  
49 CFR 192.201(a)

**Q158 Result**  
Not Applicable

### Q158 Notes

No such facilities at this location.

### Question 159

Is each meter and regulator installed as to minimize anticipated stresses on connecting piping and the meter?

**Q159 Reference**  
49 CFR 192.357(a)

**Q159 Result**  
Satisfactory

### Q159 Notes

### Question 160

Are there sufficient test stations or test points?

**Q160 Reference**  
49 CFR 192.469

**Q160 Result**  
Satisfactory

### Q160 Notes

### Question 161

Are O&M procedures (for LPG Systems) reviewed and updated by the operator at intervals not exceeding 15 months, but at least once each calendar year? Are appropriate procedures kept at locations where LPG O&M activities are conducted?

**Q161 Reference**  
49 CFR 192.605(a)

**Q161 Result**  
Unsatisfactory

### Q161 Notes

No records or documentation to support this.

### Question 162

Does the operator provide each supervisor who is responsible for emergency action with a current copy of the applicable emergency procedures?

**Q162 Reference**  
49 CFR 192.615(b)(1)

**Q162 Result**  
Unsatisfactory

### Q162 Notes

No records or documentation to support this.

### Question 163

Does the operator train operating personnel in the emergency procedures and verify that the training was effective (via testing, as an example)?

**Q163 Reference**  
49 CFR 192.615(b)(2)

**Q163 Result**  
Unsatisfactory

### Q163 Notes

No records or documentation to support this.

### Question 164

Is there a process to review employee's activities to determine whether procedures are effectively followed in each emergency (does not have to be an incident)?

**Q164 Reference**  
49 CFR 192.615(b)(3)

**Q164 Result**  
Unsatisfactory

### Q164 Notes

No records or documentation to support this.

### Question 165

Have face-to-face meetings taken place with fire, police, or other public officials to: (1) Learn their responsibility and resources to respond to gas pipeline emergencies; (2) Acquaint officials with the operator's ability to respond; (3) Identify the types of gas pipeline emergencies that the operator would notify officials; and, (4) Plan how they can engage in mutual assistance to minimize hazards?

**Q165 Reference**  
49 CFR 192.615(c)

**Q165 Result**  
Unsatisfactory

### Q165 Notes

No records or documentation to support this.

### Question 166

Has the operator established a continuing education program to better inform the public on how to recognize and report potential pipeline emergencies? Customized for LPG users? (TV, Newspaper, mailing, trade shows, etc.)

**Q166 Reference**  
49 CFR 192.616

**Q166 Result**  
Satisfactory

### Q166 Notes

### Question 167

Has the operator developed and implemented a written continuing public education program that follows the guidance provided in the American Petroleum Institute's (API) Recommended Practice (RP) 1162 (IBR, see § 192.7)?

**Q167 Reference**

**Q167 Result**

49 CFR 192.616(a)

Not Applicable

**Q167 Notes**

Not required for LPG operators.

**Question 168**

Does the operator's program follow the general program recommendations of API RP 1162 and assess the unique attributes and characteristics of the operator's pipeline and facilities for LPG systems?

**Q168 Reference**

49 CFR 192.616(b)

**Q168 Result**

Satisfactory

**Q168 Notes****Question 169**

Does the operator follow the general program recommendations, including baseline and supplemental requirements of API RP 1162, unless the operator provides justification in its program or procedural manual as to why compliance with all or certain provisions of the recommended practice is not practicable and not necessary for safety.

**Q169 Reference**

49 CFR 192.616(c)

**Q169 Result**

Not Applicable

**Q169 Notes**

Not required for LPG operators.

**Question 170**

Are Maximum Allowable Operating Pressures (MAOPs) established for each segment of the pipeline?

**Q170 Reference**

49 CFR 192.619(a)

**Q170 Result**

Satisfactory

**Q170 Notes****Question 171**

Does the operator maintain records of odorization of gas in accordance with the requirements in WAC 480-93-015?

**Q171 Reference**

WAC 480-93-015(2)

**Q171 Result**

Satisfactory

**Q171 Notes****Question 172**

Does the operator maintain records of monthly odorant testing?

**Q172 Reference**

WAC 480-93-015(2)

**Q172 Result**

Satisfactory

**Q172 Notes****Question 173**

Does the operator maintain records of odorant testing equipment calibration at appropriate intervals (annually or manufacturers recommendation)?

**Q173 Reference**

WAC 480-93-015(3)

**Q173 Result**

Unsatisfactory

**Q173 Notes**

No records or documentation to support this.

**Question 174**

Does the operator conduct inspections of pipeline markers attached to bridges or other spans at intervals specified in WAC 480-93-124? (1 per year, not to exceed 15 months)?

**Q174 Reference**

WAC 480-93-124(3)

**Q174 Result**

Not Applicable

**Q174 Notes**

No such facilities at this location.

**Question 175**

Are any markers that are reported missing or damaged replaced within 45 days?

**Q175 Reference**

WAC 480-93-124(4)

**Q175 Result**

Not Applicable

**Q175 Notes**

No such facilities at this location.

**Question 176**

Are service regulators and associated safety devices tested during initial turn-on?

**Q176 Reference**

WAC 480-93-140(2)

**Q176 Result**

Satisfactory

**Q176 Notes****Question 177**

Has there been any up-rating of the system MAOP to &gt;60 psig? If so, were procedures and specifications submitted to the Commission 45 days prior?

**Q177 Reference**

WAC 480-93-155(1)

**Q177 Result**

Not Applicable

**Q177 Notes**

No such need for this facility.

**Question 178**

Has there been any reported gas leaks investigated and promptly graded? Were records retained?

**Q178 Reference**

WAC 480-93-185(1)

**Q178 Result**

Satisfactory

**Q178 Notes**

Staff reviewed leak investigation documents.

**Question 179**

For any leaks originating from a foreign source, did the operator ensure they took appropriate action to protect their own facilities and report the source of the leak promptly to the source facility owner and others in accordance with WAC 480-93-185 reported promptly/ notification by mail. Were records retained?

**Q179 Reference**

WAC 480-93-185(3)

**Q179 Result**

Not Applicable

**Q179 Notes**

No such situation during this inspection cycle.

**Question 180**

Leak evaluations: Are follow-up inspections performed within 30 days of a leak repair?

**Q180 Reference**

WAC 480-93-186(3)

**Q180 Result**

Not Applicable

**Q180 Notes**

Leaks are fixed when found by this operator.

**Question 181**

Does the operator ensure that any Grade 1 and 2 leaks are only downgraded once to a Grade 3 without physical repair? For leaks that fit this category, does the operator ensure that repair time for that leak does not exceed 21 months?

**Q181 Reference**

WAC 480-93-186(4)

**Q181 Result**

Not Applicable

**Q181 Notes**

Leaks are fixed when found by this operator.

**Question 182**

Do leak records contain all required information listed under 480-93-187(1-13)?

**Q182 Reference**

WAC 480-93-187

**Q182 Result**

Satisfactory

**Q182 Notes****Question 183**

Were gas leak surveys performed using a gas detection instrument covering the areas and circumstances identified under 480-93-188 (1) a thru e?

**Q183 Reference**

WAC 480-93-188(1)

**Q183 Result**

Satisfactory

**Q183 Notes****Question 184**

Are gas detection instruments tested for accuracy at appropriate intervals (according to manufacturers specifications or monthly not to exceed 45 days)?

**Q184 Reference**

WAC 480-93-188(2)

**Q184 Result**

Unsatisfactory

**Q184 Notes**

there were no records or documentation to support this.

**Question 185**

Are leak surveys following the proper leak survey frequency in accordance with WAC 480-93-188(3)?

**Q185 Reference**

WAC 480-93-188(3)

**Q185 Result**

Satisfactory

**Q185 Notes****Question 186**

Were there any special leak surveys - Prior to paving or resurfacing, following street alterations or repairs?

**Q186 Reference**

WAC 480-93-188(4)(a)

**Q186 Result**

Not Applicable

**Q186 Notes**

No such conditions during this inspection cycle.

**Question 187**

Were there any special leak surveys – in areas where substructure construction occurs adjacent to underground gas facilities, and damage could have occurred?

**Q187 Reference**

WAC 480-93-188(4)(b)

**Q187 Result**

Not Applicable

**Q187 Notes**

No such conditions during this inspection cycle.

**Question 188**

Were there any special leak surveys – in unstable soil areas where active gas lines could be affected?

**Q188 Reference**

WAC 408-93-188(4)(c)

**Q188 Result**

Not Applicable

**Q188 Notes**

No such conditions during this inspection cycle.

**Question 189**

Were there any special leak surveys – in areas and at times of unusual activity, such as earthquake, floods, and explosions?

**Q189 Reference**

WAC 480-93-188(4)(d)

**Q189 Result**

Not Applicable

**Q189 Notes**

No such conditions during this inspection cycle.

**Question 190**

Were there any special leak surveys - After third-party excavation damage to services? Operators must perform a gas leak survey from the point of damage to the service tie-in.

**Q190 Reference**

WAC 480-93-188(4)(e)

**Q190 Result**

Not Applicable

**Q190 Notes**

No such conditions during this inspection cycle.

**Question 191**

Are leak survey records consistent with the requirements in WAC 480-93-188(5)?

**Q191 Reference**

WAC 480-93-188(5)

**Q191 Result**

Satisfactory

**Q191 Notes****Question 192**

Does the operator patrol Business Districts (4 per yr/4½ months) in accordance with 192.721(b)(1), as applicable?

**Q192 Reference**

49 CFR 192.603(b)

**Q192 Result**

Satisfactory

**Q192 Notes****Question 193**

Do records indicate that the operator patrols outside Business Districts at appropriate intervals (2 per yr/7½ months) in accordance with 192.721(b)(2), as applicable?

**Q193 Reference**

49 CFR 192.603(b)

**Q193 Result**

Not Applicable

**Q193 Notes**

No such conditions during this inspection cycle.

**Question 194**

Do records indicate leak surveys are conducted outside business districts at appropriate intervals (5 years) in accordance with 192.723(b)(1), as applicable?

**Q194 Reference**

49 CFR 192.603(b)

**Q194 Result**

Not Applicable

**Q194 Notes**

No such conditions during this inspection cycle.

**Question 195**

If any service lines were reinstated, were tests conducted in accordance with 192.725?

**Q195 Reference**

49 CFR 192.603(b)

**Q195 Result**

Not Applicable

**Q195 Notes**

No such conditions during this inspection cycle.

**Question 196**

If the operator abandoned any facilities, is abandonment or deactivation conducted in accordance with 192.727?

**Q196 Reference**

49 CFR 192.603(b)/.727(g)

**Q196 Result**

Not Applicable

**Q196 Notes**

No such conditions during this inspection cycle.

**Question 197**

For pressure limiting and regulating stations (as applicable) are inspections and testing conducted within appropriate intervals (1 per yr/15 months) in accordance with 192.739?

**Q197 Reference**

49 CFR 192.709

**Q197 Result**

Not Applicable

**Q197 Notes**

No such facilities at this location.

**Question 198**

Are capacity determinations for all pressure relief devices at pressure limiting stations made at the appropriate intervals (1 per yr/15 months) in accordance with 192.743? Are calculations and any remedial action to rectify insufficient relief capacity made in accordance with 192.743?

**Q198 Reference**

49 CFR 192.709

**Q198 Result**

Not Applicable

**Q198 Notes**

No such facilities at this location.

**Question 199**

If the operator utilizes vaults to house pressure regulation/limiting equipment, is vault maintenance conducted in accordance with 192.749?

**Q199 Reference**

49 CFR 192.709

**Q199 Result**

Not Applicable

**Q199 Notes**

No such facilities at this location.

**Question 200**

Do records indicate that the operator is maintaining distribution system valves within appropriate intervals (1 per yr/15 months)? and in accordance with the requirements of 192.747?

**Q200 Reference**

49 CFR 192.709

**Q200 Result**

Not Applicable

**Q200 Notes**

No such facilities at this location.

**Question 201**



Do records indicate that the operator is following/documenting a service valve installation and maintenance program consistent with the requirements in WAC 380-93-100?

**Q201 Reference**  
WAC 480-93-100(3)

**Q201 Result**  
Not Applicable

**Q201 Notes**  
No such facilities at this location.

**Question 202**  
Are service valves maintained within appropriate intervals (1/yr not to exceed 15 months)?

**Q202 Reference**  
WAC 480-93-100(4)

**Q202 Result**  
Not Applicable

**Q202 Notes**  
No such facilities at this location.

**Question 203**  
Do records indicate that line markers are placed and maintained over each buried main?

**Q203 Reference**  
49 CFR 192.707

**Q203 Result**  
Not Applicable

**Q203 Notes**  
No such facilities at this location.

**Question 204**  
Do maintenance records indicate that all covered tasks are performed by properly qualified individuals in accordance with the operator's OQ plan?

**Q204 Reference**  
WAC 480-93-013

**Q204 Result**  
Satisfactory

**Q204 Notes**

**Question 205**  
Do records indicate that the operator has and follows a sufficiently detailed procedure for Prevention of Accidental Ignition (hot work permits) in accordance with 192.751?

**Q205 Reference**  
49 CFR 192.603(b)

**Q205 Result**  
Not Applicable

**Q205 Notes**  
No such conditions during this inspection cycle.

**Question 206**  
Do records indicate that the operator is complying with the requirements for welder and plastic joiner identification and qualification outlined in WAC 480-93-080?

**Q206 Reference**  
WAC 480-93-080

**Q206 Result**  
Not Applicable

**Q206 Notes**  
No such conditions during this inspection cycle.

**Question 207**  
Were there any disconnected service lines tested before being reinstated?

**Q207 Reference**  
49 CFR 192.725

**Q207 Result**  
Not Applicable

**Q207 Notes**  
No such conditions during this inspection cycle.

**Question 208**  
Is there any pipeline abandoned or not being maintained: Disconnected at both ends, purged, and sealed?

**Q208 Reference**  
49 CFR 192.727

**Q208 Result**  
Not Applicable

**Q208 Notes**  
No such facilities during this inspection cycle.

## CORROSION CONTROL RECORDS

**Question 209**  
Are cathodic protection testing equipment/instruments checked for accuracy in accordance with appropriate intervals, as specified in WAC 480-93-110(3)?

**Q209 Reference**  
WAC 480-93-110(3)

**Q209 Result**  
Not Applicable

**Q209 Notes**  
No such facilities for this operator.

**Question 210**  
Do records indicate that corrosion control procedures are carried out by, or under the direction of a person qualified in pipeline corrosion control methods??

**Q210 Reference**  
49 CFR 192.453

**Q210 Result**  
Not Applicable

**Q210 Notes**  
No such facilities for this operator.

**Question 211**  
Do corrosion control records indicate that maps and records associated with corrosion control program are consistent with the content and retention requirements in 192.491?

**Q211 Reference**  
49 CFR 192.491

**Q211 Result**  
Not Applicable

**Q211 Notes**  
No such facilities for this operator.

**Question 212**

Do corrosion control records indicate that the operator examines buried pipe whenever it is exposed for any reason in order to examine for evidence of external corrosion or check the condition of coating?

**Q212 Reference**

49 CFR 192.459

**Q212 Result**

Not Applicable

**Q212 Notes**

No such facilities for this operator.

**Question 213**

Do records indicate appropriate levels of cathodic protection in accordance with Part 192, Appendix D criteria?

**Q213 Reference**

49 CFR 192.463

**Q213 Result**

Not Applicable

**Q213 Notes**

No such facilities for this operator.

**Question 214**

Do corrosion control records indicate that the operator conducts CP test readings on all exposed facilities where coating has been removed?

**Q214 Reference**

WAC 480-93-110(8)

**Q214 Result**

Not Applicable

**Q214 Notes**

No such facilities for this operator.

**Question 215**

For all cathodically protected pipe, does the operator maintain records of annual pipe-to-soil monitoring at appropriate intervals (1 per yr/15 months) in accordance with Part 192.465(a)?

**Q215 Reference**

49 CFR 192.465(a)

**Q215 Result**

Not Applicable

**Q215 Notes**

No such facilities for this operator.

**Question 216**

Do corrosion control records indicate that the operator surveys isolated mains and services in accordance with the requirements in Part 192.465(a)?

**Q216 Reference**

49 CFR 192.465(a)

**Q216 Result**

Not Applicable

**Q216 Notes**

No such facilities for this operator.

**Question 217**

Do corrosion control records indicate that the operator takes prompt remedial action to correct any corrosion control deficiencies in accordance with Part 192.465(d)?

**Q217 Reference**

49 CFR 192.465(d)

**Q217 Result**

Not Applicable

**Q217 Notes**

No such facilities for this operator.

**Question 218**

Do corrosion control records indicate that the operator conducts rectifier monitoring/inspections at the appropriate intervals (6 per yr/2½ months) in accordance with Part 192.465(b)?

**Q218 Reference**

49 CFR 192.465(b)

**Q218 Result**

Not Applicable

**Q218 Notes**

No such facilities for this operator.

**Question 219**

Do corrosion control records indicate that the operator conducts monitoring for interference bonds (both critical and non-critical) within appropriate intervals specified in Part 192.465(c)?

**Q219 Reference**

49 CFR 192.465(c)

**Q219 Result**

Not Applicable

**Q219 Notes**

No such facilities for this operator.

**Question 220**

Do records indicate that the operator maintains corrosion control records consistent with the content and retention requirements in WAC 480-93-110?

**Q220 Reference**

WAC 480-93-110

**Q220 Result**

Not Applicable

**Q220 Notes**

No such facilities for this operator.

**Question 221**

Do records indicate that the operator took prompt remedial action taken within 90 days to correct corrosion control deficiencies (Up to 30 additional days in certain circumstances)? Is the operator maintaining appropriate documentation of remedial action?

**Q221 Reference**

WAC 480-93-110(2)

**Q221 Result**

Not Applicable

**Q221 Notes**

No such facilities for this operator.

**Question 222**

Do records indicate that the operator reevaluates unprotected pipe and provides cathodic protection in areas where active corrosion is found (1 per 3 cal yr/39 months) in accordance with the requirements in Part 192.465(e)?

**Q222 Reference**

49 CFR 192.465(e)

**Q222 Result**

Not Applicable

**Q221 Notes**

No such facilities for this operator.

**Question 223**

Do records indicate that the operator ensures that their buried/submerged lines are electrically isolated from other underground metallic structures?

**Q223 Reference**

49 CFR 192.467

**Q223 Notes**

No such facilities for this operator.

**Question 224**

Do records indicate that the operator has installed and maintains electrical test lead wires in accordance with the requirements in Part 192.471?

**Q224 Reference**

49 CFR 192.471

**Q224 Notes**

No such facilities for this operator.

**Question 225**

Do records indicate that casings are inspected/tested annually not to exceed fifteen months?

**Q225 Reference**

WAC 480-93-110(5)

**Q225 Notes**

No such facilities for this operator.

**Question 226**

For casings without test leads ( applicable to casings installed prior to 9/05/1992), Do corrosion control records indicate that the operator appropriately demonstrates that other test/inspection methods are acceptable and that test lead wires are not necessary to monitor for isolation and adequate CP? demonstrate other acceptable test methods.

**Q226 Reference**

WAC 480-93-110(5)(a)

**Q226 Notes**

No such facilities for this operator.

**Question 227**

Do records indicate that the operator identified possible shorted conditions and conducts confirmatory follow-up inspections within 90 days?

**Q227 Reference**

WAC 480-93-110(5)(b)

**Q227 Notes**

No such facilities for this operator.

**Question 228**

Do records indicate that casing shorts are cleared when practical?

**Q228 Reference**

WAC 480-93-110(5)(c)

**Q228 Notes**

No such facilities for this operator.

**Question 229**

Do records indicate that shorted conditions are leak surveyed within 90 days of discovery, and at appropriate intervals thereafter? (Twice annually/7.5 months)

**Q229 Reference**

480-93-110(5)(d)

**Q229 Notes**

No such facilities for this operator.

**Question 230**

Do records indicate that the operator monitors for, and takes appropriate action to minimize effects of stray currents/interference currents in accordance with Part 192.473?

**Q230 Reference**

49 CFR 192.473

**Q230 Notes**

No such facilities for this operator.

**Question 231**

Do records indicate that the operator maintains a program to monitor for and minimize the effects of internal corrosion, consistent with the requirements for investigation, testing, and replacement found in Part 192.475?

**Q231 Reference**

49 CFR 192.475

**Q231 Notes**

No such facilities for this operator.

**Question 232**

Do records indicate that the operator inspects all pipe removed from their system for internal corrosion?

**Q232 Reference**

49 CFR 192.475(b)

**Q232 Notes**

No such facilities for this operator.

**Question 233**

If the operator uses internal coupons to monitor for internal corrosion, does the operator inspect them within the appropriate intervals (2 per yr/7½ months) in accordance with Part 192.477?

**Q233 Reference**

49 CFR 192.477

**Q233 Notes**

No such facilities for this operator.

**Question 234**

Do records indicate that the operator conducts Atmospheric Corrosion Control Monitoring at the appropriate intervals (1 per 3 cal yr/39 months onshore) in accordance with Part 192.481?

**Q234 Reference****Q223 Result**

Not Applicable

**Q224 Result**

Not Applicable

**Q225 Result**

Not Applicable

**Q226 Result**

Not Applicable

**Q227 Result**

Not Applicable

**Q228 Result**

Not Applicable

**Q229 Result**

Not Applicable

**Q230 Result**

Not Applicable

**Q231 Result**

Not Applicable

**Q232 Result**

Not Applicable

**Q233 Result**

Not Applicable

**Q234 Result**

49 CFR 192.481

Satisfactory

**Q234 Notes****Question 235**

Do records indicate that the operator takes appropriate remedial measures for all metallic pipe that has been removed/replaced because of external corrosion in accordance with Part 192.483?

**Q235 Reference**

49 CFR 192.483

**Q235 Result**

Not Applicable

**Q235 Notes**

No such facilities for this operator.

**Question 236**

Do records indicate that the operator conducts appropriate remedial measures for their distribution lines when general corrosion or localized corrosion pitting is found consistent with the requirements in Part 192.487?

**Q236 Reference**

49 CFR 192.487

**Q236 Result**

Not Applicable

**Q236 Notes**

No such facilities for this operator.

## FIELD OBSERVATIONS

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**Question 237**

Supports and anchors

**Q237 Reference**

49 CFR 192.161

**Q237 Result**

Satisfactory

**Q237 Notes****Question 238**

Valve Protection from Tampering or Damage

**Q238 Reference**

49 CFR 192.179

**Q238 Result**

Satisfactory

**Q238 Notes**

Operator has added locking valves at existing valve locations on aboveground piping attached to building structures since last inspection cycle.

**Question 239**

Regulator and Relief discharge stacks, vents, or outlet ports designed to prevent accumulation of water, ice, or snow, located where gas can be discharged into the atmosphere without undue hazard?

**Q239 Reference**

49 CFR 192.199(e)

**Q239 Result**

Satisfactory

**Q239 Notes****Question 240**

Identification and qualification cards/certificates w/name of welder/joiner, their qualifications, date of qualification and operator whose qualification procedures were followed.

**Q240 Reference**

WAC 480-93-080(3)

**Q240 Result**

Satisfactory

**Q240 Notes****Question 241**

Personnel performing "New Construction" covered tasks OQ qualified?

**Q241 Reference**

WAC 480-93-015(1)

**Q241 Result**

Not Applicable

**Q241 Notes**

No such condition for this operator.

**Question 242**

Odorization

**Q242 Reference**

WAC 480-93-015(1)

**Q242 Result**

Satisfactory

**Q242 Notes****Question 243**

Updated records, including maps and drawings made available to appropriate operations personnel?

**Q243 Reference**

WAC 480-93-018(3)

**Q243 Result**

Satisfactory

**Q243 Notes****Question 244**

Pipeline coatings meet requirements of 192.461

**Q244 Reference**

49 CFR 192.461

**Q244 Result**

Satisfactory

**Q244 Notes****Question 245**

Adequate levels of cathodic protection?

**Q245 Reference**

49 CFR 192.463

**Q245 Notes**

No such conditions for this operator.

**Question 246**

Rectifier checks/monitoring consistent with Part 192.465?

**Q246 Reference**

49 CFR 192.465

**Q246 Notes**

No such facilities for this operator.

**Question 247**

Appropriate electrical isolation in accordance with Part 192.467?

**Q247 Reference**

49 CFR 192.467

**Q247 Notes**

No such facilities at this location.

**Question 248**

Sufficient CP test stations or test points?

**Q248 Reference**

49 CFR 192.469

**Q248 Notes**

No such facilities at this location.

**Question 249**

Atmospheric corrosion monitoring for exposed components?

**Q249 Reference**

49 CFR 192.481

**Q249 Notes****Question 250**

Casings: test leads on ventless casings? For mains installed in casings, are casing ends sealed? For service lines installed in casings, are casing ends nearest to the building walls sealed?

**Q250 Reference**

WAC 480-93-115

**Q250 Notes**

No such facilities at this location.

**Question 251**

Valve maintenance in accordance with Part 192.747?

**Q251 Reference**

49 CFR 192.747

**Q251 Notes**

No such condition for this operator.

**Question 252**

Are pits/vaults built to withstand vehicle traffic where anticipated?

**Q252 Reference**

49 CFR 192.355(c)

**Q252 Notes**

No such facilities at this location.

**Question 253**

Service regulators installed, operated, maintained per federal/state code? If inside meter/regulator sets, ensure a detailed inspection of all components is conducted with operator (Discuss ADB 2020-01)

**Q253 Reference**

WAC 480-93-140

**Q253 Notes****Question 254**

Are meters/regulators protected from damage?

**Q254 Reference**

49 CFR 192.355

**Q254 Notes****Question 255**

Knowledge of Operating Personnel

**Q255 Reference**

49 CFR 192.605

**Q255 Notes****Question 256**

Pipeline markers installed

**Q256 Reference**

WAC 480-93-124

**Q245 Result**

Not Applicable

**Q246 Result**

Not Applicable

**Q247 Result**

Not Applicable

**Q248 Result**

Not Applicable

**Q249 Result**

Satisfactory

**Q250 Result**

Not Applicable

**Q251 Result**

Not Applicable

**Q252 Result**

Not Applicable

**Q253 Result**

Satisfactory

**Q254 Result**

Satisfactory

**Q255 Result**

Satisfactory

**Q256 Result**

Not Applicable

**Q256 Notes**

No such facilities at this location.

**Question 257**

Warning Signs over mains consistent with 192.707?

**Q257 Reference**

49 CFR 192.707

**Q257 Notes**

No such facilities at this location.

**Question 258**

Overpressure protection designed and installed where required?

**Q258 Reference**

49 CFR 192.195

**Q258 Notes**

**Q257 Result**

Not Applicable

**Q258 Result**

Satisfactory

**Question 259**

Whenever service to a customer is discontinued, does the operator : (1) provide a locking device on the service line valve; (2) install a mechanical device to prevent the flow of gas: or, (3) disconnect the customer's piping from the gas supply and seal the open ends?

**Q259 Reference**

49 CFR 192.727(d)

**Q259 Notes**

**Q259 Result**

Satisfactory

**SUMMARY OF REQUIRED COMMENTS**

**REQUIRED for all entries other than "Satisfactory": Consolidate the comments from the "Notes" blocks and summarize here. Ensure you annotate the question number for each entry.**