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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

Table with 4 columns: Inspection ID, Inspection Link, Inspector - Lead, Inspector - Assist, Operator, Unit, Records Location - City & State, Inspection Start Date, Inspection Exit Interview Date, Engineer Submit Date.

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

Scope and Summary:

This LPG Standard inspection covered plan, procedure and records review questions and also a site review of pipeline facilities. This will be the first standard inspection, a PA inspection was performed on 1/29/2020 with [22] probable violations of federal or state code identified by staff.

The Pacific Seafoods pipeline system consists of [6] permanently installed 1,000 gal containers manifolded together and an electric-fired vaporizer which delivers LPG from a commercial property, across a public right-of-way to another commercial property serving a commercial boiler through 2-inch, 1-inch and 3/4-inch polyethylene (PE) piping installed underground and black-iron and copper tubing above ground.

Dates, Activities and Locations:

8/11- Pacific Seafoods (Quilcene) - LPG Standard Inspection - (1601 Linger Longer Road, Quilcene WA 98376)

Summary of Significant Findings:

[25] probable violations of federal or state code were identified by staff

Primary operator contacts/participants in the inspection:

- Donald May | Regional Safety Manager | Ferrellgas (509) 586-0959 | (509) 551-2830 Cell
Jacob Gould | District Manager | Ferrellgas (360) 710-0922 Cell
Jared Guerrero | General Manager | Ferrellgas (360) 402-0746 Cell

Instructions and Ratings Definitions

Table with 3 columns: INSTRUCTIONS, INSPECTION RESULTS, Unanswered Questions. Rows include S - Satisfactory, U - Unsatisfactory, Area Of Concern, N/A - Not Applicable, N/C - Not Checked/Evaluated.

*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

Form with 4 questions regarding reporting requirements for incidents, fatalities, and property damage. Each question includes a reference, notes, and a result field.

Q4 Reference WAC 480-93-200(1)(b)	Q4 Result Not Applicable
Q4 Notes No incidents 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 incidents 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 incidents 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 incidents this inspection cycle	
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 incidents this inspection cycle	
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 incidents 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 Result Not Applicable
Q10 Notes No incidents this inspection cycle	
Question 11 The uncontrolled release of gas for more than two hours;	
Q11 Reference WAC 480-93-200(2)(a)	Q11 Result Not Applicable
Q11 Notes No incidents 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 Result Not Applicable
Q12 Notes No incidents this inspection cycle	
Question 13 A pipeline or system pressure exceeding the MAOP	
Q13 Reference WAC 480-93-200(2)(d)	Q13 Result Not Applicable
Q13 Notes No incidents 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 Result Not Applicable
Q14 Notes No incidents 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 Result Not Applicable
Q15 Notes No incidents 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 Result Not Applicable
Q16 Notes No incidents 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 Result Not Applicable

Q17 Notes

First year of operation

Question 18

Was annual report on construction defects or material failures submitted?

Q18 Reference

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

Q18 Result

Not Applicable

Q18 Notes

No incidents 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 Result

Not Applicable

Q19 Notes

Not required for this system

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 Result

Not Applicable

Q20 Notes

No SRCR 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

Q21 Result

Not Applicable

Q21 Notes

No service lines in this pipeline system

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

Does not apply to this pipeline system

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

Does not apply to this pipeline system

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

Does not apply to this pipeline system

NFPA 58: CONTAINER REQUIREMENTS**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**Q30 Result**

NFPAS8 5.2.5.5

Not Applicable

Q30 Notes

No such facilities on this pipeline system

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

NFPAS8 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

NFPAS8 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

NFPAS8 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

NFPAS8 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

NFPAS8 5.2.8.3 (B)

Q35 Result

Not Applicable

Q35 Notes

No such facilities on this pipeline system

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

NFPAS8 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

NFPAS8 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

NFPAS8 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

NFPAS8 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

NFPAS8 5.2.8.3 (5)

Q40 Result

Satisfactory

Q40 Notes

Question 41

Is the outside surface in square feet indicated?

Q41 Reference

NFPAS8 5.2.8.3 (6)

Q41 Result

Satisfactory

Q41 Notes

Question 42

Is the year of manufacture indicated?

Q42 Reference

NFPAS8 5.2.8.3 (7)

Q42 Result

Satisfactory

Q42 Notes

Question 43

Is the shell thickness and head thickness noted?

Q43 Reference

NFPAS8 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

NFPAS8 5.2.8.3 (9)

Q44 Result

Satisfactory

Q44 Notes**Question 45**

Is the manufacturer's serial number indicated?

Q45 Reference

NFPAS8 5.2.8.3 (10)

Q45 Result

Satisfactory

Q45 Notes**Question 46**

Is the ASME code symbol shown?

Q46 Reference

NFPAS8 5.2.8.3 (11)

Q46 Result

Satisfactory

Q46 Notes**Question 47**

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

Q47 Reference

NFPAS8 5.2.8.3 (12)

Q47 Result

Satisfactory

Q47 Notes**Question 48**

Is the type of Construction "W" indicated?

Q48 Reference

NFPAS8 5.2.8.3 (13)

Q48 Result

Satisfactory

Q48 Notes**Question 49**

Is the degree of radiography "RT-____" shown?

Q49 Reference

NFPAS8 5.2.8.3 (14)

Q49 Result

Satisfactory

Q49 Notes**Question 50**

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

Q50 Reference

NFPAS8 5.7.7.1

Q50 Result

Satisfactory

Q50 Notes**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 m³) 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 m³ through 15.2 m³) 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

NFPAS8 5.7.7.1

Q51 Result

Satisfactory

Q51 Notes**Question 52**Are ASME containers over 4000 gal (15.2 m³) 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

NFPAS8 5.7.7.2

Q52 Result

Not Applicable

Q52 Notes

No such facilities on this pipeline system

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 on this pipeline system

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 on this pipeline system

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

Not Applicable

Q60 Notes

Does not apply in this inspection cycle

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 on this pipeline system

Question 62

Are there gaskets for use with approved or listed liquid level gauges on a container of 3500 gal (13.2 m3) 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 on this pipeline system

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 (ft³/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 on this pipeline system

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
Satisfactory

Q71 Notes

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

Unsatisfactory

Q77 Notes

Ferrellgas did not provide staff with any records or documentation to support how the PE pipeline was fused together.

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

Satisfactory

Q78 Notes**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 on this pipeline system

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 Result

Satisfactory

Q81 Notes**Question 82**

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

Q82 Reference

NFPA58 5.15.5.2

Q82 Result

Not Applicable

Q82 Notes

No such facilities on this pipeline system

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 Result

Satisfactory

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 Result

Unsatisfactory

Q84 Notes

Above ground tanks were found to be closer than 25 feet away from the nearest building.

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 Result

Not Applicable

Q85 Notes

No such facilities on this pipeline system

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 Result

Not Applicable

Q86 Notes

No such facilities on this pipeline system.

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 Result

Not Applicable

Q87 Notes

No such facilities on this pipeline system

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 Result

Not Applicable

Q88 Notes

No such facilities on this pipeline system

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
NFPAS8 6.3.8

Q89 Result
Not Applicable

Q89 Notes

No such facilities on this pipeline system

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
NFPAS8 6.4.4.5

Q90 Result
Not Applicable

Q90 Notes

No such facilities on this pipeline system

Question 91

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

Q91 Reference
NFPAS8 6.4.5.2

Q91 Result
Satisfactory

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
NFPAS8 6.4.5.5

Q92 Result
Satisfactory

Q92 Notes

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
NFPAS8 6.4.5.12

Q93 Result
Not Applicable

Q93 Notes

No such facilities on this pipeline system

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
NFPAS8 6.4.5.12

Q94 Result
Satisfactory

Q94 Notes

Question 95

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

Q95 Reference
NFPAS8 6.6.1.1

Q95 Result
Satisfactory

Q95 Notes

Question 96

Are above ground containers protected from traffic/vehicles?

Q96 Reference
NFPAS8 6.6.1.2

Q96 Result
Satisfactory

Q96 Notes

Question 97

Are above ground containers painted?

Q97 Reference
NFPAS8 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
NFPAS8 6.6.1.6

Q98 Result
Satisfactory

Q98 Notes

Question 99

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

Q99 Reference
NFPAS8 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
NFPAS8 6.8.7

Q100 Result
Not Applicable

Q100 Notes

No such facilities on this pipeline system

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 on this pipeline system

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 on this pipeline system

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 on this pipeline system

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 on this pipeline system

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 m³) 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 on this pipeline system

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

Satisfactory

Q112 Notes

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 on this pipeline system

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 on this pipeline system

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 on this pipeline system

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 on this pipeline system

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 on this pipeline system

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

Satisfactory

Q118 Notes

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 on this pipeline system

Question 123

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

Q123 Reference

NFPA58 6.8.3.8

Q123 Result

Not Applicable

Q123 Notes

No such facilities on this pipeline system

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

Satisfactory

Q124 Notes

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

NFPA58 6.8.3.9 (B)

Q125 Result

Satisfactory

Q125 Notes

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

Unsatisfactory

Q130 Notes

Ferrellgas did not provide staff any record or documentation to support this

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 on this pipeline system

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

Satisfactory

Q132 Notes**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 on this pipeline system

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 on this pipeline system

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

Unsatisfactory

Q135 Notes

Ferrellgas did not provide staff any record or documentation to support this

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

Satisfactory

Q136 Notes**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 on this pipeline system

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 on this pipeline system

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 on this pipeline system

Question 140

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

Q140 Reference

NFPAS8 6.15.5.3

Q140 Result

Not Applicable

Q140 Notes

No such facilities on this pipeline system

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 ft² (9 m²)

(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

NFPAS8 6.16.5.2

Q141 Result

Not Applicable

Q141 Notes

Fencing is not required for this pipeline system

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

NFPAS8 6.19.2.1

Q142 Result

Not Applicable

Q142 Notes

No such facilities on this pipeline system

Question 143

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

Q143 Reference

NFPAS8 6.19.2.2

Q143 Result

Not Applicable

Q143 Notes

No such facilities on this pipeline system

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

NFPAS8 6.19.2.3

Q144 Result

Satisfactory

Q144 Notes**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

NFPAS8 6.19.2.4

Q145 Result

Not Applicable

Q145 Notes

No such facilities on this pipeline system

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

NFPAS8 6.19.2.6

Q146 Result

Not Applicable

Q146 Notes

No such facilities on this pipeline system

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 NFPAS8 Chapter 10?

Q147 Reference

NFPAS8 6.19.3.1

Q147 Result

Not Applicable

Q147 Notes

No such facilities on this pipeline system

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

NFPAS8 6.19.3.2

Q148 Result

Not Applicable

Q148 Notes

No such facilities on this pipeline system

Question 149

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

Q149 Reference

NFPAS8 6.19.3.3

Q149 Result

Not Applicable

Q149 Notes

No such facilities on this pipeline system

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

NFPAS8 6.19.3.4

Q150 Result

Not Applicable

Q150 Notes

No such facilities on this pipeline system

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

NFPAS8 6.19.3.5

Q151 Result

Satisfactory

Q151 Notes

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 on this pipeline system

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 6.19.27, 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
 Satisfactory

Q153 Notes**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 on this pipeline system

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 on this pipeline system

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
 Satisfactory

Q156 Notes**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 on this pipeline system

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 on this pipeline system

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
 Not Applicable

Q159 Notes

No such facilities on this pipeline system

Question 160

Are there sufficient test stations or test points?

Q160 Reference
 49 CFR 192.469

Q160 Result
 Unsatisfactory

Q160 Notes

Ferrellgas did not provide staff any record or documentation to support this

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

Ferrellgas did not provide staff any record 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

Ferrellgas did not provide staff any record 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

Ferrellgas did not provide staff any record 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

Ferrellgas did not provide staff any record 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

Ferrellgas did not provide staff any record 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

49 CFR 192.616(a)

Q167 Result

Satisfactory

Q167 Notes**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

Not Applicable

Q168 Notes

Not required for this pipeline system

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 this pipeline system

Question 170

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

Q170 Reference

49 CFR 192.619(a)

Q170 Result

Unsatisfactory

Q170 Notes

Ferrellgas did not provide staff any record or documentation to support this

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

Unsatisfactory

Q171 Notes

Ferrellgas did not provide staff any record or documentation to support this

Question 172

Does the operator maintain records of monthly odorant testing?

Q172 Reference

WAC 480-93-015(2)

Q172 Result

Unsatisfactory

Q172 Notes

Ferrellgas did not provide staff any record or documentation to support this

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

Ferrellgas did not provide staff any record 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 for this pipeline system

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

Not within this inspection cycle

Question 176

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

Q176 Reference

WAC 480-93-140(2)

Q176 Result

Unsatisfactory

Q176 Notes

Ferrellgas did not provide staff any record or documentation to support this

Question 177

Has there been any up-rating of the system MAOP to >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

Not within this inspection cycle

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

Not Applicable

Q178 Notes

Not within this inspection cycle

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

Not within 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

No leaks detected within this inspection cycle

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

No leaks detected within this inspection cycle

Question 182

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

Q182 Reference

WAC 480-93-187

Q182 Result

Not Applicable

Q182 Notes

No leaks detected within this inspection cycle

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

Unsatisfactory

Q183 Notes

Ferrellgas did not provide staff any record or documentation to support this

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

Ferrellgas did not provide staff any record 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

Unsatisfactory

Q185 Notes

Ferrellgas did not provide staff any record or documentation to support this

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 special leak surveys within 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 special leak surveys within 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 special leak surveys within 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 special leak surveys within 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 special leak surveys within 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

Unsatisfactory

Q191 Notes

Ferrellgas did not provide staff any record or documentation to support this

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

Not Applicable

Q192 Notes

No such facilities on this pipeline system

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

Unsatisfactory

Q193 Notes

Ferrellgas did not provide staff any record or documentation to support this

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

Unsatisfactory

Q194 Notes

Ferrellgas did not provide staff any record or documentation to support this

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 facilities on this pipeline system

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 facilities on this pipeline system

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 on this pipeline system

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 on this pipeline system

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 on this pipeline system

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 on this pipeline system

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 on this pipeline system

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 on this pipeline system

Question 203

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

Q203 Reference

49 CFR 192.707

Q203 Result

Unsatisfactory

Q203 Notes

Ferrellgas did not provide staff any record or documentation to support this

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

Unsatisfactory

Q204 Notes

Ferrellgas did not provide staff any record or documentation to support this

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

Unsatisfactory

Q205 Notes

Ferrellgas did not provide staff any record or documentation to support this

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

Unsatisfactory

Q206 Notes

Ferrellgas did not provide staff any record or documentation to support this

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 facilities on this pipeline system

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 on this pipeline system

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 on this pipeline system

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 on this pipeline system

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 on this pipeline system

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 on this pipeline system

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 on this pipeline system

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 on this pipeline system

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 on this pipeline system

Question 216

Do corrosion control records indicate that the operator surveye 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 on this pipeline system	
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 on this pipeline system	
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 on this pipeline system	
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 on this pipeline system	
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 on this pipeline system	
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
Q222 Notes No such facilities on this pipeline system	
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
Q222 Notes No such facilities on this pipeline system	
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 Result Not Applicable
Q223 Notes No such facilities on this pipeline system	
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 Result Not Applicable
Q224 Notes No such facilities on this pipeline system	
Question 225 Do records indicate that casings are inspected/tested annually not to exceed fifteen months?	
Q225 Reference WAC 480-93-110(5)	Q225 Result Not Applicable
Q225 Notes No such facilities on this pipeline system	
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 Result Not Applicable
Q226 Notes No such facilities on this pipeline system	
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 Result Not Applicable
Q227 Notes No such facilities on this pipeline system	
Question 228 Do records indicate that casing shorts are cleared when practical?	
Q228 Reference WAC 480-93-110(5)(c)	Q228 Result Not Applicable
Q228 Notes No such facilities on this pipeline system	
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	Q229 Result

480-93-110(5)(d)

Not Applicable

Q229 Notes

No such facilities on this pipeline system

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 Result

Not Applicable

Q230 Notes

No such facilities on this pipeline system

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 Result

Not Applicable

Q231 Notes

No such facilities on this pipeline system

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 Result

Not Applicable

Q232 Notes

No such facilities on this pipeline system

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 Result

Not Applicable

Q233 Notes

No such facilities on this pipeline system

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

49 CFR 192.481

Q234 Result

Not Applicable

Q234 Notes

No such facilities on this pipeline system

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 on this pipeline system

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 on this pipeline system

FIELD OBSERVATIONS

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

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

Unsatisfactory

Q240 Notes

Ferrellgas did not provide staff any record or documentation to support this

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 operation for this pipeline system

Question 242

Odorization	
Q242 Reference WAC 480-93-015(1)	Q242 Result Unsatisfactory
Q242 Notes Ferrellgas did not provide staff any record or documentation to support this	
Question 243 Updated records, including maps and drawings made available to appropriate operations personnel?	
Q243 Reference WAC 480-93-018(3)	Q243 Result Unsatisfactory
Q243 Notes Ferrellgas did not provide staff any record or documentation to support this	
Question 244 Pipeline coatings meet requirements of 192.461	
Q244 Reference 49 CFR 192.461	Q244 Result Not Applicable
Q244 Notes This pipeline system has PE pipeline	
Question 245 Adequate levels of cathodic protection?	
Q245 Reference 49 CFR 192.463	Q245 Result Not Applicable
Q245 Notes This pipeline system has PE pipeline	
Question 246 Rectifier checks/monitoring consistent with Part 192.465?	
Q246 Reference 49 CFR 192.465	Q246 Result Not Applicable
Q246 Notes Does not apply to this pipeline system	
Question 247 Appropriate electrical isolation in accordance with Part 192.467?	
Q247 Reference 49 CFR 192.467	Q247 Result Not Applicable
Q247 Notes Does not apply to this pipeline system	
Question 248 Sufficient CP test stations or test points?	
Q248 Reference 49 CFR 192.469	Q248 Result Not Applicable
Q248 Notes Does not apply to this pipeline system	
Question 249 Atmospheric corrosion monitoring for exposed components?	
Q249 Reference 49 CFR 192.481	Q249 Result Unsatisfactory
Q249 Notes Ferrellgas did not provide staff any record or documentation to support this	
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 Result Not Applicable
Q250 Notes No such facilities on this pipeline system	
Question 251 Valve maintenance in accordance with Part 192.747?	
Q251 Reference 49 CFR 192.747	Q251 Result Unsatisfactory
Q251 Notes Ferrellgas did not provide staff any record or documentation to support this	
Question 252 Are pits/vaults built to withstand vehicle traffic where anticipated?	
Q252 Reference 49 CFR 192.355(c)	Q252 Result Not Applicable
Q252 Notes No such facilities on this pipeline system	
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 Result Not Applicable
Q253 Notes No such facilities on this pipeline system	
Question 254 Are meters/regulators protected from damage?	
Q254 Reference 49 CFR 192.355	Q254 Result Not Applicable
Q254 Notes No such facilities on this pipeline system	
Question 255 Knowledge of Operating Personnel	
Q255 Reference	Q255 Result

49 CFR 192.605 Satisfactory

Q255 Notes

Question 256

Pipeline markers installed

Q256 Reference Q256 Result

WAC 480-93-124 Satisfactory

Q256 Notes

Question 257

Warning Signs over mains consistent with 192.707?

Q257 Reference Q257 Result

49 CFR 192.707 Satisfactory

Q257 Notes

Question 258

Overpressure protection designed and installed where required?

Q258 Reference Q258 Result

49 CFR 192.195 Not Applicable

Q258 Notes

No such facilities on this pipeline system

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 Q259 Result

49 CFR 192.727(d) Not Applicable

Q259 Notes

No such facilities on this pipeline system

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.