

# Inspection Output (IOR)

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## Inspection Information

Inspection Name	Targa	Operator(s)	TARGA SOUND TERMINAL LLC (38921)	Plan Submitted	09/17/2018
	Intrastate	Lead	Scott Anderson	Plan Approval	09/17/2018
	Records and	Observer(s)	Glynn Blanton, Denise Crawford		by Joe
	Field Inspection	Supervisor	Joe Subsits		Subsits
Status	PLANNED	Director	Sean Mayo	All Activity Start	09/24/2001
Start Year	2018			All Activity End	09/28/2001
System Type	HL			Inspection Submitted	--
Protocol Set ID	HL.2017.01			Inspection Approval	--

## Inspection Summary

### Inspection Scope and Summary

This inspection consisted of a records and field review of Targa Sound Terminal's facilities. The Targa pipeline consists of approximately 14,000 feet of 10" 0.365 wall X52 FBE coated DRL. The 10-inch pipeline was constructed in 2012 mostly installed using HDD. The line begins on F St on the west side of the Tacoma tide flats and transports refined products northeast across the flats to Targa Sound Terminal on Marine View Drive. 95% of the pipeline is more than 40 feet deep--45 feet deep under the Puyallup River and 148 feet deep under the Blair and Hylebos Waterways. There are two CP test points, 1-booster pump station (two 200-hp product pumps) at Olympic's DF and 1 breakout tank necessary to relieve surges (Tank 205 also new in 2012). The Maximum Operating Pressure is 540 psig, however Targa operates at or below 250psig.

IA planned questions used: Core, Small Systems Key Risk, BO tank Inspection, and Field Observations Review.

### Facilities visited and Total AFOD

Records and field review: 3 total AFOD

### Summary of Significant Findings

Two probable violations were noted as a result of this inspection.

#### 1. Do records indicate inspection and testing of each overpressure safety device on its non-HVL pipelines at intervals not to exceed 15 months, but at least once each calendar year? MO.LMOPP.PRESSREGTEST.R

195.428(a) states that operators shall inspect and test each pressure limiting device, relief valve, pressure regulator, or other item of pressure control equipment to determine that it is functioning properly, is in good mechanical condition, and is adequate from the standpoint of capacity and reliability of operation for the service in which it is used. Targa could not provide a record stating that the thermal relief valves connected to the launcher's/receiver's had been inspection since the lines were brought into service.

#### 2. Do records document inspection of aboveground pipe exposed to atmospheric corrosion? TD.ATM.ATMCORRODEI NSP.R

195.583(a) states that operators must inspect each pipeline or portion of pipeline that is exposed for evidence of atmospheric corrosion. In Targa's case, because the pipeline is located onshore, at least once ever 3 calendar years, NTE 39 months. Targa's first inspection of atmospheric corrosion should have been done 2015 due to the line going into service in 2013. Targa could not provide a record for 2015 but could provide a record for 2018.

## Scope (Assets)

#	Short Label	Long Label	Asset Type	Asset IDs	Excluded Topics	Planned	Required	Inspected	Total	Required % Complete
1.	Targa Standard	Targa Standard Inspeccion	other	Targa Sound Terminal	Pump Stations Offshore GOM HVL CO2 Biofuels Crosses Nav.	114	114	114	114	100.0%

a. Percent completion excludes unanswered questions planned as "always observe".

## Plans

#	Plan Assets	Focus Directives	Involved Groups/Subgroups	Qst Type(s)	Extent Notes
1.	Targa Standard	Field Observations Review, Small System Key Risks, BO Tank Inspection, Core	AR, CR, DC, EP, FS, IM, MO, PD, RPT, SRN, TD, TQ, GENERIC	R, O	Detail

## Plan Implementations

#	Activity Name	SMAR T Act#	Start Date	End Date	Focus Directives	Involved Groups/Subgroups	Asset Types	Qst Type(s)	Planned	Required	Inspected	Total	Required % Complete
1	Targa Standard Inspection	--	09/24/2001	09/28/2001	n/a	all planned questions	all assets	all types	114	114	114	114	100.0%

a. Since questions may be implemented in multiple activities, but answered only once, questions may be represented more than once in this table.

b. Percent completion excludes unanswered questions planned as "always observe".

## Forms

No.	Entity	Form Name	Status	Date Completed	Activity Name	Asset
1.	Attendance List	Targa Standard Inspection	COMPLETED	09/27/2018	Targa Standard Inspection	Targa Standard
2.	Breakout Tanks	Targa Standard Inspection	COMPLETED	09/25/2018	Targa Standard Inspection	Targa Standard

## Results (all values, 114 results)

135 (instead of 114) results are listed due to re-presentation of questions in more than one sub-group.

### AR.IA: Integrity Assessments

- Question Result, ID, NA, AR.IA.ASSESSSCHEDULE.R, 195.452(l)(1)(ii) (195.452(b)(5), 195.452(c), 195.452(d), References 195.452(f)(5), 195.452(j)(3), 195.452(j)(5))

Question Text *Do the records indicate that assessments are implemented as specified in the assessment plan?*

Assets Covered Targa Standard

Result Notes Dennis Ritter (WUTC) performed a full IMP inspection 9/10/18-9/11/18

## AR.IL: In-Line Inspection (Smart Pigs)

2. Question Result, ID, References **NA, AR.IL.IINVALIDATE.R, 195.452(l)(1)(ii) (195.452(b)(6), 195.452(f)(4), 195.452(h), 195.452(c)(1))**  
Question Text *Do the records for validating ILI assessment results indicate that the process was implemented?*  
Assets Covered **Targa Standard**  
Result Notes **Dennis Ritter (WUTC) performed a full IMP inspection 9/10/18-9/11/18**

## AR.RCHCA: Repair Criteria (HCA)

3. Question Result, ID, References **NA, AR.RCHCA.IMSCHEDULE.R, 195.452(l)(1)(ii) (195.452(h)(3), 195.452(h)(4))**  
Question Text *Do the records indicate that the operator has met the schedule for remediating a condition in accordance with 195.452(h)(4)?*  
Assets Covered **Targa Standard**  
Result Notes **Dennis Ritter (WUTC) performed a full IMP inspection 9/10/18-9/11/18**

## AR.RMP: Repair Methods and Practices

4. Question Result, ID, References **NA, AR.RMP.METHOD.R, 195.404(c)(1) (195.422(a), 195.422(b), 195.452(h)(1), 195.401(b)(1), 195.401(b)(2))**  
Question Text *From the review of the results of integrity assessment and remediation projects, were all repairs performed in accordance with procedures and applicable sections of 49 CFR Part 195?*  
Assets Covered **Targa Standard**  
Result Notes **Dennis Ritter (WUTC) performed a full IMP inspection 9/10/18-9/11/18**
5. Question Result, ID, References **NA, AR.RMP.REPAIRQUAL.R, 195.505(b) (195.507(a), 195.505(c), 195.452(h)(1), 195.452(b)(5))**  
Question Text *From the records review of the results of integrity assessment and remediation projects, were personnel performing repairs, other than welding, qualified for the task they performed?*  
Assets Covered **Targa Standard**  
Result Notes **Dennis Ritter (WUTC) performed a full IMP inspection 9/10/18-9/11/18**
6. Question Result, ID, References **NA, AR.RMP.REPLACESTD.R, 195.404(a)(1) (195.422(b),)**  
Question Text *Were all replaced line pipe and/or components designed and constructed as required by Part 195?*  
Assets Covered **Targa Standard**  
Result Notes **No such event occurred, or condition existed, in the scope of inspection review.**

## CR.CRMRR: Roles and Responsibilities

7. Question Result, ID, References **Sat, CR.CRMRR.PRESSLIMITS.O, 195.446(b)(2)**  
Question Text *Are controllers aware of the current MOPs of all pipeline segments for which they are responsible, and have they been assigned the responsibility to maintain those pipelines at or below the MOP?*  
Assets Covered **Targa Standard**  
Result Notes **SCADA system is designed to alarm at a 15 bbl fluctuation**

## CR.SCADA: Supervisory Control and Data Acquisition

8. Question Result, ID, References **Sat, CR.SCADA.POINTVERIFY.R, 195.446(c)(2)**  
Question Text *Have required point-to-point verifications been performed?*  
Assets Covered **Targa Standard**  
Result Notes **Reviewed Targa's Station Calibration Form. Point-to-point verification is done yearly, reviewed records from 2016 and 2017. 2018 will be performed in October 2018.**

## DC.CO: Construction

9. Question Result, ID, References **Sat, DC.CO.VALVEPROTECT.O, 195.258(a)**  
Question Text *Are valves accessible to authorized employees and protected from damage or tampering?*  
Assets Covered **Targa Standard**  
Result Notes **Valves are accessible**
10. Question Result, ID, References **Sat, DC.CO.VALVELOCATION.O, 195.260(a) (195.260(b), 195.260(c), 195.260(d), 195.260(e), 195.260(f))**  
Question Text *Are valves located as specified by 195.260?*  
Assets Covered **Targa Standard**  
Result Notes **Valves are located as specified by 195.260**

## DC.TSNEW: New Tanks and Storage

11. Question Result, ID, References **NA, DC.TSNEW.BOSPEC.R, 195.132(b)**  
Question Text *Do records indicate new aboveground breakout tanks designed and constructed to the specifications required by 195.132(b)?*  
Assets Covered **Targa Standard**  
Result Notes **No such event occurred, or condition existed, in the scope of inspection review.**
12. Question Result, ID, References **Sat, DC.TS.BOCP.O, 195.565 (195.563(d))** (also presented in: DC.TS)  
Question Text *Is cathodic protection on breakout tanks being installed in accordance with API RP 651?*  
Assets Covered **Targa Standard**  
Result Notes **CP on breakout tanks is installed on breakout tanks in accordance with API RP 651**

## DC.PT: Pressure Testing

13. Question Result, ID, References **NA, DC.PT.PRESSTEST.O, 195.302(a) (195.304, 195.305(a), 195.305(b), 195.306(a), 195.306(b), 195.306(c), 195.306(d), 195.307(a), 195.307(b), 195.307(c), 195.307(d), 195.307(e), 195.308)**  
Question Text *Is pressure testing being adequately conducted?*  
Assets Covered **Targa Standard**  
Result Notes **No such activity/condition was observed during the inspection. No new construction or pressure tests have been performed in this inspection timeframe**

## DC.TS: Tanks and Storage

14. Question Result, ID, References **Sat, DC.TS.BOCP.O, 195.565 (195.563(d))** (also presented in: DC.TSNEW)  
Question Text *Is cathodic protection on breakout tanks being installed in accordance with API RP 651?*  
Assets Covered **Targa Standard**  
Result Notes **CP on breakout tanks is installed on breakout tanks in accordance with API RP 651**
15. Question Result, ID, References **NA, DC.TS.BOMODIFY.R, 195.266 (195.205(b))**  
Question Text *Do records indicate breakout tanks repaired, altered, or reconstructed in compliance with the requirements of 195.205(b)?*  
Assets Covered **Targa Standard**  
Result Notes **No such event occurred, or condition existed, in the scope of inspection review. The 5 year required API 653 external inspection was done in March of 2018**

## EP.EPO: Emergency Planning OPA

16. Question Result, ID, References **Sat, EP.EPO.OPASUBMITTAL.R, 194.101(a) (194.101(b), 194.119(e))** (also presented in: RPT.NR)

Question Text *If the operator is required to have a Facility Response Plan, does the current plan submitted and approved by PHMSA cover all the required pipeline assets?*

Assets Covered Targa Standard

Result Notes Targa Sound Terminal submitted their original Facility Response Plan in 2013 and submitted a reviewed and revised plan in 2018 to Michelle Tillman from PHMSA. No issues.

17. Question Result, ID, References Sat, EP.EPO.OPALLOCATION.O, 194.111(a) (194.111(b))

Question Text *Is the response plan maintained at required locations?*

Assets Covered Targa Standard

Result Notes Hard copies are in the control room, digitally, and in Matthew Kolata's office. An OPA drill tabletop is being done 11/8/18

18. Question Result, ID, References Sat, EP.EPO.OPADRILL.R, 194.107(c)(1)(ix) (National Preparedness for Response Exercise Program (PREP) Guidelines, Section 5 (August 2002))

Question Text *Do records indicate the drill program follows the National Preparedness for Response Exercise Program (PREP) guidelines?*

Assets Covered Targa Standard

Result Notes Targa's plan follows the NW area contingency PREP guidelines. Reviewed documentation from the most recent drill that was performed. No issues.

## EP.ERL: Emergency Response Liquids

19. Question Result, ID, References Sat, EP.ERL.REVIEW.R, 195.402(a)

Question Text *Has the operator conducted annual reviews of the emergency plans and procedures as required and made appropriate changes?*

Assets Covered Targa Standard

Result Notes Reviewed Targa's "Annual Review of the Pipeline Operations and Maintenance Manual" form for 2016 and 2017 this form also covers the Emergency Plan. Also looked at the revisions pages in the manuals. No issues.

20. Question Result, ID, References Sat, EP.ERL.LOCATION.O, 195.402(a)

Question Text *Are appropriate parts of the manual kept at locations where operations and maintenance activities are conducted?*

Assets Covered Targa Standard

Result Notes Hard copies are in the control room, digitally, and in Matthew Kolata's office

21. Question Result, ID, References Sat, EP.ERL.LIAISON.R, 195.402(a) (195.402(c)(12), 195.440(c), API RP 1162 Section 4.4) (also presented in: PD.PA)

Question Text *Do records indicate that liaison has been established and maintained with appropriate fire, police, public officials, and utility owners?*

Assets Covered Targa Standard

Result Notes Targa's records indicate that liaison has been established and maintained with the appropriate entities.

22. Question Result, ID, References NA, EP.ERL.NOTICES.R, 195.402(a) (195.402(e)(1))

Question Text *Do records indicate receiving, identifying, classifying and communicating notices of events requiring immediate response in accordance with procedures?*

Assets Covered Targa Standard

Result Notes No such event occurred, or condition existed, in the scope of inspection review. It is also in the O&M manual 3

## EP.ETR: Emergency Training of Personnel

23. Question Result, ID, References Sat, EP.ETR.TRAINING.R, 195.403(a)

Question Text *Do records indicate the operator provided training to its emergency response personnel as required?*

Assets Covered Targa Standard

Result Notes Reviewed emergency response training sign in sheets from 2016 and 2017 also reviewed the emergency response training procedures.

## FS.TSAPIINSPECT: Tanks and Storage - Inspection

24. Question Result, ID, References NA, FS.TSAPIINSPECT.BOINSPECTION.R, 195.404(c)(3) (195.432(a))

Question Text *Do records document that breakout tanks that are not steel atmospheric or low pressure tanks or HVL steel tanks built according to API 2510 have been inspected at the proper interval and that deficiencies found during inspections have been corrected?*

Assets Covered Targa Standard

Result Notes No such relevant facilities/equipment existed in the scope of inspection review. Breakout tank 205 is an API 653 steel tank

25. Question Result, ID, References Sat, FS.TSAPIINSPECT.BOINSRVCINSP.R, 195.404(c)(3) (195.432(b))

Question Text *Do records document that steel atmospheric or low pressure breakout tanks have received routine in-service inspections at the required intervals and that deficiencies found during inspections have been documented?*

Assets Covered Targa Standard

Result Notes Breakout tank 205 is Targa's only regulated breakout tank. The first in-service inspection was performed March 2, 2018 by Mistras Group, Inc.

The API 653 inspector was Zach Libby, API 653 Cert No. 46293, exp. 11/30/2018.

The inspector had 12 optional recommendations and 1 mandatory, the mandatory recommendation was to "ensure that extensive MFL and UT examination is performed during the next out of service event." This will be performed during the out of service inspection in 2022. Targa has not determined which optional recommendations are going to be performed. No issues.

26. Question Result, ID, References Sat, FS.TSAPIINSPECT.BOEXTINSP.R, 195.404(c)(3) (195.432(b))

Question Text *Do records document that steel atmospheric or low pressure breakout tanks have received external inspections at the required intervals and that deficiencies documented during inspections have been corrected within a reasonable time frame?*

Assets Covered Targa Standard

Result Notes Breakout tank 205 is Targa's only regulated breakout tank. The first in-service inspection was performed March 2, 2018 by Mistras Group, Inc.

The API 653 inspector was Zach Libby, API 653 Cert No. 46293, exp. 11/30/2018.

The inspector had 12 optional recommendations and 1 mandatory, the mandatory recommendation was to "ensure that extensive MFL and UT examination is performed during the next out of service event." This will be performed during the out of service inspection in 2022. Targa has not determined which optional recommendations are going to be performed. No issues.

27. Question Result, ID, References Sat, FS.TSAPIINSPECT.BOEXTUTINSP.R, 195.404(c)(3) (195.432(b))

Question Text *Do records document that steel atmospheric or low pressure breakout tanks have received ultrasonic thickness inspections at the required intervals and that deficiencies found during inspections have been documented?*

Assets Covered Targa Standard

Result Notes Breakout tank 205 is Targa's only regulated breakout tank. The first in-service inspection was performed March 2, 2018 by Mistras Group, Inc.

The API 653 inspector was Zach Libby, API 653 Cert No. 46293, exp. 11/30/2018.

a UT examination was also performed during this 653 inspection. Reviewed the UT results from the inspection and there were no issues.

28. Question Result, ID, References NA, FS.TSAPIINSPECT.BOINTINSP.R, 195.404(c)(3) (195.432(b))

Question Text *Do records document that steel atmospheric or low pressure breakout tanks have received formal internal inspections at the required intervals and that deficiencies found during inspections have been documented?*

Assets Covered Targa Standard

Result Notes A formal internal inspection is not due until 2022, tank 205 is only DOT regulated tank that Targa has and was constructed in 2012

29. Question Result, ID, References NA, FS.TSAPIINSPECT.BOEXTINSPAPI2510.R, 195.404(c)(3) (195.432(c))

Question Text *Do records document that in-service pressure steel aboveground breakout tanks built to API Standard 2510 have received visual external inspections at the required intervals and that deficiencies found have been corrected?*

Assets Covered Targa Standard

Result Notes No such relevant facilities/equipment existed in the scope of inspection review.

30. Question Result, ID, References NA, FS.TSAPIINSPECT.BOINTINSPAPI2510.R, 195.404(c)(3) (195.432(c))

Question Text *Do records document that in-service pressure steel aboveground breakout tanks built to API Standard 2510 received internal inspections at the required intervals and that deficiencies found have been corrected?*

Assets Covered Targa Standard

Result Notes No such relevant facilities/equipment existed in the scope of inspection review.

31. Question Result, ID, References Sat, FS.TS.BOINSPECTION.O, 195.432(a) (195.432(b), 195.432(c), 195.401(b)) (also presented in: FS.TS)

Question Text *Is the condition of steel atmospheric or low pressure tanks acceptable?*

Assets Covered Targa Standard

Result Notes Upon performing a walk around the tank, the condition is acceptable

## FS.FG: Facilities General

32. Question Result, ID, References Sat, FS.FG.SIGNAGE.O, 195.434 (also presented in: PD.SN)

Question Text *Are there operator signs around each pumping station, breakout tank area, and other applicable facilities?*

Assets Covered Targa Standard

Result Notes Signage is adequate

33. Question Result, ID, References Sat, FS.FG.FACPROTECT.O, 195.436 (also presented in: PD.SN)

Question Text *Are facilities adequately protected from vandalism and unauthorized entry?*

Assets Covered Targa Standard

Result Notes Targa's entire facility is surrounded by 8' or taller fencing with barbed wire

34. Question Result, ID, References Sat, FS.FG.IGNITION.O, 195.438 (also presented in: PD.SN)

Question Text *Is there signage that prohibits smoking and open flames around pump stations, launchers and receivers, breakout tank areas, or other applicable facilities?*

Assets Covered Targa Standard

Result Notes Adequate signage

35. Question Result, ID, References Sat, FS.FG.FIREPROT.R, 195.404(c)(3) (195.430(a), 195.430(b), 195.430(c))

Question Text *Are records of inspections of firefighting equipment adequate?*

Assets Covered Targa Standard

Result Notes Targa uses third party vendor Fire Systems West to inspect and certify all firefighting equipment (foam systems and fire extinguishers) at the facility. No issues.

36. Question Result, ID, References Sat, FS.FG.FIREPROT.O, 195.430(a) (195.430(b), 195.430(c), 195.262(e))

Question Text *Has adequate fire protection equipment been installed at pump station/breakout tank areas and is it maintained properly?*

Assets Covered Targa Standard

Result Notes Adequate fire protection throughout the facility including fire extinguishers and fire nozzles. Nozzles can apply water and/or foam. It is properly maintained

## FS.PS: Pump Stations

37. Question Result, ID, References **Unsat**, MO.LMOPP.PRESSREGTEST.R, 195.404(c) (195.428(a)) (also presented in: MO.LMOPP)

Question Text *Do records indicate inspection and testing of each overpressure safety device on its non-HVL pipelines at intervals not to exceed 15 months, but at least once each calendar year?*

Assets Covered Targa Standard

Result Issue Summary Targa has ordered new valves to replace all of the thermal relief valves that have not been inspected, reviewed the purchase order dated 9/18/2018. Once the thermal relief valves are replaced they will be added to the annual inspection task list.

Standard Issues B2 (Moderate or small impact/limited occurrence) : 195.428(a) : Pressure limiting device, relief valve, pressure regulator or other item of pressure control equipment have not been inspected and tested.

Result Notes Targa has been testing all pressure relief valves at the required intervals for the mainline, reviewed records from 2015-2017, no issues.

Targa has not been testing the thermal relief valves on the launcher/receiver, boost station pump, and the thermal relief attached to the surge line that enters tank 205.

38. Question Result, ID, References **Sat**, MO.LMOPP.PRESSREGTEST.O, 195.428(a) (also presented in: MO.LMOPP)

Question Text *Are inspections of overpressure safety devices adequate (including HVL lines)?*

Assets Covered Targa Standard

Result Notes Checked bi-annually

39. Question Result, ID, References **Sat**, MO.LMOPP.LAUNCHRECVRELIEF.O, 195.426 (also presented in: MO.LMOPP)

Question Text *Are launchers and receivers equipped with relief devices?*

Assets Covered Targa Standard

Result Notes Launcher and receivers are equipped with relief devices

## FS.TS: Tanks and Storage

40. Question Result, ID, References **Sat**, FS.TS.OVERFILLBO.R, 195.404(c)(3) (195.428(a), 195.428(c), 195.428(d))

Question Text *Do records document the inspection and testing of overfill protection devices on aboveground breakout tanks at the required interval? [Note: This question applies to both non-HVL and HVL pressure breakout tanks.]*

Assets Covered Targa Standard

Result Notes Targa visually inspects tank 205 monthly and trips the overfill protection in June and December. Reviewed the monthly reports from 2015-2018. No issues

41. Question Result, ID, References **Sat**, FS.TS.OVERFILLBO.O, 195.428(c)

Question Text *Do selected overfill protection systems on aboveground breakout tanks that were constructed or significantly altered after October 2, 2000 function properly and are they in good mechanical condition? [Note: This question applies to both non-HVL and HVL pressure breakout tanks.]*

Assets Covered Targa Standard

Result Notes Ted Lilyblade performed a check on the overfill protection system, the overfill protection device triggered an alarm in the control room within 10 seconds.

42. Question Result, ID, References **Sat**, FS.TS.BOINSPECTION.O, 195.432(a) (195.432(b), 195.432(c), 195.401(b)) (also presented in: FS.TSAPIINSPECT)

Question Text *Is the condition of steel atmospheric or low pressure tanks acceptable?*

Assets Covered Targa Standard

Result Notes Upon performing a walk around the tank, the condition is acceptable



43. Question Result, ID, References **Sat, FS.TS.IGNITIONBO.R, 195.404(c) (195.405(a))**  
 Question Text *Do records indicate protection against ignitions arising out of static electricity, lightning, and stray currents during operation and maintenance activities of aboveground breakout tanks?*  
 Assets Covered **Targa Standard**  
 Result Notes **Targa T-205 is grounded per API Recommended Practice 2003**
44. Question Result, ID, References **Sat, FS.TS.FLOATINGROOF.R, 195.404(c) (195.405(b))**  
 Question Text *Do records indicate access/egress onto floating roofs of in-service aboveground breakout tanks to perform inspection, service, maintenance, or repair activities of in-service tanks is performed consistent with API Publication 2026?*  
 Assets Covered **Targa Standard**  
 Result Notes **Reviewed Targa O&M section 1-11. No issues**
45. Question Result, ID, References **Sat, FS.TS.IMPOUNDBO.R, 195.404(c) (195.264(b))**  
 Question Text *If a breakout tank first went into service after October 2, 2000 do records indicate it has an adequate impoundment?*  
 Assets Covered **Targa Standard**  
 Result Notes **Targa tank farm, including T-205, impoundment is designed to contain 3,290,095 gallons (~86,000 Bbl). 110% more than Targa's largest tank. Reviewed the containment calculations. No issues**
46. Question Result, ID, References **Sat, FS.TS.IMPOUNDBO.O, 195.264(b)**  
 Question Text *If a breakout tank first went into service after October 2, 2000 does it have an adequate impoundment?*  
 Assets Covered **Targa Standard**  
 Result Notes **Targa's impoundment is ~86,000 Bbl 110% more than the largest tank in the facility**
47. Question Result, ID, References **Sat, FS.TS.VENTBO.R, 195.404(c) (195.264(d))**  
 Question Text *Do records indicate that normal/emergency relief venting and pressure/vacuum-relieving devices installed on aboveground breakout tanks after October 2, 2000 are adequate?*  
 Assets Covered **Targa Standard**  
 Result Notes **Targa T-205 is an atmospheric pressure tank that is built to API 650 standards. Records indicate that normal/emergency relief venting and pressure/vacuum-relieving devices installed are adequate.**
48. Question Result, ID, References **Sat, FS.TS.PRESSTESTBO.R, 195.310(a) (195.310(b), 195.307)**  
 Question Text *Have aboveground breakout tanks been pressure tested to their corresponding API or ASME Standard or Specification and do pressure test records contain the required information?*  
 Assets Covered **Targa Standard**  
 Result Notes **Reviewed the hydrostatic test records for the construction of T-205 from 2012. No issues**

## FS.VA: Valves

49. Question Result, ID, References **Sat, MO.LM.VALVEMAIN.T.R, 195.404(c) (195.420(a), 195.420(b)) (also presented in: MO.LM)**  
 Question Text *Do records indicate each mainline valve was inspected as required?*  
 Assets Covered **Targa Standard**  
 Result Notes **Reviewed Targa "Bi-Annual Block Valve Inspection Record" form for 2015-2018. All inspections are done in the required interval. Tom Metcalf, who is no longer with Targa, was OQ qualified to perform valve inspections from 2015-2017. His requalification date was 11/2017. Ted Lilyblade is the new employee that performs valve inspections his requalification date is 11/2021 No issues.**
50. Question Result, ID, References **Sat, MO.LM.VALVEMAIN.O, 195.420(a) (195.420(c)) (also presented in: MO.LM)**  
 Question Text *Do the pipeline system valves appear to be in good working order and are they protected from unauthorized operation?*  
 Assets Covered **Targa Standard**

Result Notes Ted Lilyblade performed a check on the valve for the inlet of the T-205, it operated smoothly. All valves are chained with a combination lock

## IM.PM: Preventive and Mitigative Measures

51. Question Result, ID, References NA, IM.PM.PMMPREVENTIVE.R, 195.452(l)(1)(ii) (195.452(f)(6), 195.452(i)(1), 195.452(i)(2))

Question Text *Do the records indicate that preventive actions have been considered and implemented?*

Assets Covered Targa Standard

Result Notes Dennis Ritter (WUTC) performed a full IMP inspection 9/10/18-9/11/18

## MO.ABNORMAL: Liquid Pipeline Abnormal Operations

52. Question Result, ID, References Sat, MO.ABNORMAL.ABNORMAL.R, 195.404(b) (195.402(d)(1))

Question Text *Do records indicate operator's personnel responded to indications of abnormal operations as required by the written procedures?*

Assets Covered Targa Standard

Result Notes Reviewed records from 2015-2017. Section A of the Targa O&M manual gives the procedures for abnormal operations.

Targa had 4 abnormal operations in 2015, 5 abnormal operations in 2016, 3 abnormal operations in 2017.

Procedures were correctly followed in all of the abnormal events. No issues.

53. Question Result, ID, References Sat, MO.ABNORMAL.ABNORMALREVIEW.R, 195.404(b) (195.402(d)(5))

Question Text *Do records indicate post-event reviews of actions taken by operator personnel to determine the effectiveness of the abnormal operation procedures and whether corrective actions were taken deficiencies were found?*

Assets Covered Targa Standard

Result Notes Reviewed records from 2015-2017. No corrective actions were taken or deficiencies found in the procdures. No issues.

## MO.LOMOP: Liquid Pipeline MOP

54. Question Result, ID, References Sat, MO.LOMOP.MOPDETERMINE.R, 195.402(c)(3) (195.406(a), 195.406(b), 195.302(b), 195.302(c))

Question Text *Do records indicate the maximum operating pressure was established in accordance with 195.406?*

Assets Covered Targa Standard

Result Notes Found in Targa's Engineering and Construction section of the O&M manual.

Reviewed MOP documentation and determination records for the mainline. Targa MOP is 540psig but operates at 250psig. The MOP was established in accordance with 195.406. No issues

## MO.LM: Liquid Pipeline Maintenance

55. Question Result, ID, References Sat, MO.LM.VALVEMAIINT.R, 195.404(c) (195.420(a), 195.420(b)) (also presented in: FS.VA)

Question Text *Do records indicate each mainline valve was inspected as required?*

Assets Covered Targa Standard

Result Notes Reviewed Targa "Bi-Annual Block Valve Inspection Record" form for 2015-2018. All inspections are done in the required interval. Tom Metcalf, who is no longer with Targa, was OQ qualified to perform valve inspections from 2015-2017. His requalification date was 11/2017. Ted Lilyblade is the new employee that performs valve inspections his requalification date is 11/2021 No issues.

56. Question Result, ID, References Sat, MO.LM.VALVEMAIINT.O, 195.420(a) (195.420(c)) (also presented in: FS.VA)

Question Text *Do the pipeline system valves appear to be in good working order and are they protected from unauthorized operation?*

Assets Covered Targa Standard

Result Notes Ted Lilyblade performed a check on the valve for the inlet of the T-205, it operated smoothly. All valves are chained with a combination lock

## MO.LO: Liquid Pipeline Operations

57. Question Result, ID, References Sat, MO.LO.OMMANUALREVIEW.R, 195.402(a)

Question Text *Do records indicate annual reviews of the written procedures in the manual were conducted as required?*

Assets Covered Targa Standard

Result Notes Reviewed Targa O&M Manual revisions page and it is current. Targa O&M section 2 Manual Reviews. No issues

58. Question Result, ID, References Sat, MO.LO.OMLOCATION.O, 195.402(a)

Question Text *Are appropriate parts of the manual kept at locations where operations and maintenance activities are conducted?*

Assets Covered Targa Standard

Result Notes Control room, digitally, Matthew Kolata's office

59. Question Result, ID, References Sat, MO.LO.OMHISTORY.R, 195.404(a) (195.404(c), 195.9, 195.402(c)(1))

Question Text *Do records indicate current maps and records of the pipeline system are maintained and made available as necessary?*

Assets Covered Targa Standard

Result Notes All maps and records are maintained in hard copy at the facility and digitally. They are made available as necessary. No issues

60. Question Result, ID, References Sat, MO.LO.OMHISTORY.O, 195.404(a) (195.404(c), 195.9, 195.402(c)(1))

Question Text *Are current maps and records of its pipeline systems available to appropriate operating personnel?*

Assets Covered Targa Standard

Result Notes Control room, digitally, Matthew Kolata's office

61. Question Result, ID, References Sat, MO.LO.OMEFFECTREVIEW.R, 195.402(a) (195.402(c)(13), 195.404(a))

Question Text *Do records indicate periodic review of the work done by operator personnel to determine the effectiveness of the procedures used in normal operation and maintenance and corrective action taken where deficiencies are found?*

Assets Covered Targa Standard

Result Notes Reviewed the "Pipeline Personnel Performance Reviews" forms from 2015-2017. No corrective actions taken or deficiencies were found. No issues.

62. Question Result, ID, References Sat, MO.LO.OPRECORDS.R, 195.404(b) (195.402(c)(3))

Question Text *Does the operator maintain operating records as required?*

Assets Covered Targa Standard

Result Notes Targa maintains records as required.

## MO.LMOPP: Liquid Pipeline Overpressure Protection

63. Question Result, ID, References Unsat, MO.LMOPP.PRESSREGTEST.R, 195.404(c) (195.428(a)) (also presented in: FS.PS)

Question Text *Do records indicate inspection and testing of each overpressure safety device on its non-HVL pipelines at intervals not to exceed 15 months, but at least once each calendar year?*

Assets Covered Targa Standard

Result Issue Summary Targa has ordered new valves to replace all of the thermal relief valves that have not been inspected, reviewed the purchase order dated 9/18/2018. Once the thermal relief valves are replaced they will be added to the annual inspection task list.

Standard Issues B2 (Moderate or small impact/limited occurrence) : 195.428(a) : Pressure limiting device, relief valve, pressure regulator or other item of pressure control equipment have not been inspected and tested.

Result Notes Targa has been testing all pressure relief valves at the required intervals for the mainline, reviewed records from 2015-2017, no issues.

Targa has not been testing the thermal relief valves on the launcher/receiver, boost station pump, and the thermal relief attached to the surge line that enters tank 205.

64. Question Result, ID, References Sat, MO.LMOPP.PRESSREGTEST.O, 195.428(a) (also presented in: FS.PS)

Question Text *Are inspections of overpressure safety devices adequate (including HVL lines)?*

Assets Covered Targa Standard

Result Notes Checked bi-annually

65. Question Result, ID, References Sat, MO.LMOPP.LAUNCHRECVRELIEF.O, 195.426 (also presented in: FS.PS)

Question Text *Are launchers and receivers equipped with relief devices?*

Assets Covered Targa Standard

Result Notes Launcher and receivers are equipped with relief devices

## MO.LOOPER: Liquid Pipeline Startup and Shutdown Operations

66. Question Result, ID, References NA, MO.LOOPER.PRESSURELIMIT.R, 195.404(b) (195.402(c)(7))

Question Text *Do records indicate the operator assured that pressure limitations on the pipeline were not exceeded during startups or shut-ins?*

Assets Covered Targa Standard

Result Notes No such event occurred, or condition existed, in the scope of inspection review.

67. Question Result, ID, References NA, MO.LOOPER.FAILSAFE.R, 195.402(a) (195.402(c)(8))

Question Text *Do records indicate pressures and flow conditions were monitored as required on pipelines that are not equipped to fail safe?*

Assets Covered Targa Standard

Result Notes No such relevant facilities/equipment existed in the scope of inspection review. Targa's pipeline is equipped to fail safe

68. Question Result, ID, References NA, MO.LOOPER.FAILSAFE.O, 195.402(a) (195.402(c)(8))

Question Text *Does the operator have the ability to monitor the pipeline pressure and flow conditions from an attended location on a pipeline that is not designed to fail safe?*

Assets Covered Targa Standard

Result Notes All Targa's systems are designed to fail safe

## MO.RW: ROW Markers, Patrols, Monitoring and Analysis

69. Question Result, ID, References Sat, MO.RW.PATROL.R, 195.412(a) (195.412(b)) (also presented in: PD.RW)

Question Text *Do records indicate ROW surface conditions and crossings under navigable waterways were inspected, and reporting and appropriate mitigation performed?*

Assets Covered Targa Standard

Result Notes Targa performs patrols weekly. Reviewed documentation from 2015-2018. No issues

70. Question Result, ID, References Sat, MO.RW.ROWMARKER.O, 195.410(a) (195.410(b), 195.410(c)) (also presented in: PD.RW)

Question Text *Are line markers placed and maintained as required?*

Assets Covered Targa Standard

Result Notes Adequate markers along the ROW

71. Question Result, ID, References Sat, MO.RW.ROWCONDITION.O, 195.412(a) (also presented in: PD.RW)  
Question Text *Are the ROW conditions acceptable for the type of patrolling used?*  
Assets Covered Targa Standard  
Result Notes ROW conditions were acceptable. ROW is mostly pavement/gravel

## PD.OC: One-Call Damage Prevention

72. Question Result, ID, References NA, PD.OC.ONECALL.O, 195.442(c)(3)  
Question Text *Observe operator's process for a "One Call" Ticket.*  
Assets Covered Targa Standard  
Result Notes No such activity/condition was observed during the inspection.
73. Question Result, ID, References Sat, PD.OC.PROGRAM.R, 195.442(a)  
Question Text *Do records indicate the damage prevention program is being carried out as written?*  
Assets Covered Targa Standard  
Result Notes Targa is a member of One-Call. Targa O&M Section 17. Reviewed tickets from 2015-2018 all locates were done within the required timeframe by Targa. Derek Martin performs the locating for Targa. The damage prevention program is being carried out as written

## PD.PA: Public Awareness

74. Question Result, ID, References NA, PD.PA.AUDIENCEID.R, 195.440(d) (195.440(e), 195.440(f), API RP 1162 Section 2.2, API RP 1162 Section 3)  
Question Text *Do records identify the individual stakeholders in the four affected stakeholder audience groups: (1) affected public, (2) emergency officials, (3) local public officials, and (4) excavators, as well as affected municipalities, school districts, businesses, and residents to which it sends public awareness materials and messages?*  
Assets Covered Targa Standard  
Result Notes A full Public Awareness inspection was performed September 25, 2018
75. Question Result, ID, References NA, PD.PA.EDUCATE.R, 195.440(d) (195.440(f))  
Question Text *Did delivered messages specifically include provisions to educate the public, emergency officials, local public officials, and excavators on: (1) Use of a one-call notification system prior to excavation and other damage prevention activities; (2) Possible hazards associated with unintended releases from a hazardous liquid or carbon dioxide pipeline facility; (3) Physical indications of a possible release; (4) Steps to be taken for public safety in the event of a hazardous liquid or carbon dioxide pipeline release; and (5) Procedures to report such an event?*  
Assets Covered Targa Standard  
Result Notes A full Public Awareness inspection was performed September 25, 2018
76. Question Result, ID, References NA, PD.PA.LOCATIONMESSAGE.R, 195.440(e) (195.440(f))  
Question Text *Were messages developed and delivered to advise affected municipalities, school districts, businesses, and residents of pipeline facility location?*  
Assets Covered Targa Standard  
Result Notes A full Public Awareness inspection was performed September 25, 2018
77. Question Result, ID, References Sat, EP.ERL.LIAISON.R, 195.402(a) (195.402(c)(12), 195.440(c), API RP 1162 Section 4.4) (also presented in: EP.ERL)  
Question Text *Do records indicate that liaison has been established and maintained with appropriate fire, police, public officials, and utility owners?*  
Assets Covered Targa Standard  
Result Notes Targa's records indicate that liaison has been established and maintained with the appropriate entities.

78. Question Result, ID, References **NA, PD.PA.LANGUAGE.R, 195.440(g) (API RP 1162 Section 2.3.1)**  
 Question Text *Were materials and messages developed and delivered in other languages commonly understood by a significant number and concentration of non-English speaking populations in the operator's areas?*  
 Assets Covered **Targa Standard**  
 Result Notes **A full Public Awareness inspection was performed September 25, 2018**
79. Question Result, ID, References **NA, PD.PA.EVALIMPL.R, 195.440(c) (195.440(i), API RP 1162 Section 8.3)**  
 Question Text *Has an audit or review of the public awareness program implementation been performed annually since the program was developed?*  
 Assets Covered **Targa Standard**  
 Result Notes **A full Public Awareness inspection was performed September 25, 2018**
80. Question Result, ID, References **NA, PD.PA.MEASUREBOTTOM.R, 195.440(c) (API RP 1162 Section 8.4.4)**  
 Question Text *Did the operator attempt to measure bottom-line results of the program by tracking third-party incidents and consequences including: (1) near misses, (2) excavation damages resulting in pipeline failures, (3) excavation damages that do not result in pipeline failures?*  
 Assets Covered **Targa Standard**  
 Result Notes **A full Public Awareness inspection was performed September 25, 2018**
81. Question Result, ID, References **NA, PD.PA.CHANGES.R, 195.440(c) (API RP 1162 Section 2.7 (Step 12), API RP 1162 Section 8.5)**  
 Question Text *Were needed changes and/or modifications to the program identified and documented based on the results and findings of the program effectiveness evaluations?*  
 Assets Covered **Targa Standard**  
 Result Notes **A full Public Awareness inspection was performed September 25, 2018**

## PD.RW: ROW Markers, Patrols, Monitoring

82. Question Result, ID, References **Sat, MO.RW.PATROL.R, 195.412(a) (195.412(b))** (also presented in: MO.RW)  
 Question Text *Do records indicate ROW surface conditions and crossings under navigable waterways were inspected, and reporting and appropriate mitigation performed?*  
 Assets Covered **Targa Standard**  
 Result Notes **Targa performs patrols weekly. Reviewed documentation from 2015-2018. No issues**
83. Question Result, ID, References **Sat, MO.RW.ROWMARKER.O, 195.410(a) (195.410(b), 195.410(c))** (also presented in: MO.RW)  
 Question Text *Are line markers placed and maintained as required?*  
 Assets Covered **Targa Standard**  
 Result Notes **Adequate markers along the ROW**
84. Question Result, ID, References **Sat, MO.RW.ROWCONDITION.O, 195.412(a)** (also presented in: MO.RW)  
 Question Text *Are the ROW conditions acceptable for the type of patrolling used?*  
 Assets Covered **Targa Standard**  
 Result Notes **ROW conditions were acceptable. ROW is mostly pavement/gravel**
85. Question Result, ID, References **NA, PD.RW.INFORMATION.R, 195.404(c) (195.402(c)(3), 195.452(f)(3), 195.452(g))**  
 Question Text *Do records show damage prevention information being gathered and recorded during pipeline patrols and surveillance and then analyzed is available for review?*  
 Assets Covered **Targa Standard**  
 Result Notes **Dennis Ritter (WUTC) performed a full IMP inspection 9/10/18-9/11/18**

## PD.SN: Facilities Signage and Security

86. Question Result, ID, References **Sat, FS.FG.SIGNAGE.O, 195.434** (also presented in: FS.FG)  
 Question Text *Are there operator signs around each pumping station, breakout tank area, and other applicable facilities?*  
 Assets Covered **Targa Standard**  
 Result Notes **Signage is adequate**
87. Question Result, ID, References **Sat, FS.FG.FACPROTECT.O, 195.436** (also presented in: FS.FG)  
 Question Text *Are facilities adequately protected from vandalism and unauthorized entry?*  
 Assets Covered **Targa Standard**  
 Result Notes **Targa's entire facility is surrounded by 8' or taller fencing with barbed wire**
88. Question Result, ID, References **Sat, FS.FG.IGNITION.O, 195.438** (also presented in: FS.FG)  
 Question Text *Is there signage that prohibits smoking and open flames around pump stations, launchers and receivers, breakout tank areas, or other applicable facilities?*  
 Assets Covered **Targa Standard**  
 Result Notes **Adequate signage**

## RPT.NR: Notices and Reporting

89. Question Result, ID, References **Sat, EP.EPO.OPASUBMITTAL.R, 194.101(a) (194.101(b), 194.119(e))** (also presented in: EP.EPO)  
 Question Text *If the operator is required to have a Facility Response Plan, does the current plan submitted and approved by PHMSA cover all the required pipeline assets?*  
 Assets Covered **Targa Standard**  
 Result Notes **Targa Sound Terminal submitted their original Facility Response Plan in 2013 and submitted a reviewed and revised plan in 2018 to Michelle Tillman from PHMSA. No issues.**

## RPT.RR: Regulatory Reporting (Traditional)

90. Question Result, ID, References **Sat, RPT.RR.ANNUALREPORT.R, 195.49**  
 Question Text *Do the records indicate that complete and accurate Annual Reports have been submitted?*  
 Assets Covered **Targa Standard**  
 Result Notes **Reviewed annual reports from 2015-2017, annual report was submitted 4/21/16 for 2015, 5/11/17 for 2016, and 3/23/18 for 2017. No issues**
91. Question Result, ID, References **NA, RPT.RR.ACCIDENTREPORT.R, 195.54(a) (195.50(a), 195.50(b), 195.50(c), 195.50(d), 195.50(e))**  
 Question Text *Do records indicate the original accident reports were filed as required?*  
 Assets Covered **Targa Standard**  
 Result Notes **No such event occurred, or condition existed, in the scope of inspection review.**
92. Question Result, ID, References **NA, RPT.RR.ACCIDENTREPORTSUPP.R, 195.54(b)**  
 Question Text *Do records indicate accurate supplemental accident reports were filed and within the required timeframe?*  
 Assets Covered **Targa Standard**  
 Result Notes **No such event occurred, or condition existed, in the scope of inspection review.**
93. Question Result, ID, References **NA, RPT.RR.SRCR.R, 195.56(a) (195.55(a), 195.55(b), 195.56(b))**  
 Question Text *Do records indicate safety-related condition reports were filed as required?*  
 Assets Covered **Targa Standard**  
 Result Notes **No such event occurred, or condition existed, in the scope of inspection review.**
94. Question Result, ID, References **NA, RPT.RR.NPMSABANDONWATER.R, 195.59(a)**

Question Text *Do records indicate reports were filed for abandoned offshore pipeline facilities or abandoned onshore pipeline facilities that crosses over, under or through a commercially navigable waterway?*

Assets Covered Targa Standard

Result Notes No such relevant facilities/equipment existed in the scope of inspection review.

95. Question Result, ID, References Sat, RPT.RR.NPMSANNUAL.R, 195.61(a) (195.61(b))

Question Text *Do records indicate: NPMS submissions are completed each year, on or before June 15, representing all in service, idle and retired assets as of December 31 of the previous year, and if no modifications occurred an email to that effect was submitted?*

Assets Covered Targa Standard

Result Notes Reviewed emails that confirmed NPMS submissions were completed for 2015-2018. Submissions were 4/4/15, 2/25/16, 2/16/17. No issues.

## TD.ATM: External Corrosion - Atmospheric

96. Question Result, ID, References Sat, TD.ATM.ATMCORRODECOAT.R, 195.589(c) (195.581(a), 195.581(b), 195.581(c))

Question Text *Do records document adequate protection of pipeline against atmospheric corrosion?*

Assets Covered Targa Standard

Result Notes Targa's pipe is properly coated at the soil-to-air interface to protect from atmospheric corrosion.

97. Question Result, ID, References Unsat, TD.ATM.ATMCORRODEINSP.R, 195.589(c) (195.583(a), 195.583(b), 195.583(c))

Question Text *Do records document inspection of aboveground pipe exposed to atmospheric corrosion?*

Assets Covered Targa Standard

Result Issue Summary Targa's pipeline was installed in 2012 and they could not provide a record for a 2015 inspection of aboveground pipe exposed to atmospheric corrosion. Targa could provide a record for 2018 and will provide records in the future.

Standard Issues C (Documentation/administrative - no significant impact) : 195.583(a) : Records indicate requirement not completed at required intervals.

Result Notes Targa's pipe is properly coated at the soil-to-air interface to protect from atmospheric corrosion. Although properly coated Targa could not provide documentation stating they have been monitoring it in the required interval (once every 3 years).

98. Question Result, ID, References Sat, TD.ATM.ATMCORRODEINSP.O, 195.583(c) (195.581(a))

Question Text *Is aboveground pipe that is exposed to atmospheric corrosion protected?*

Assets Covered Targa Standard

Result Notes Soil-to-air interface looked sufficient

## TD.CPBO: External Corrosion - Breakout Tank Cathodic Protection

99. Question Result, ID, References Sat, TD.CP.DEFICIENCY.R, 195.589(c) (195.573(e)) (also presented in: TD.CP, TD.CPMONITOR, TD.CPEXPOSED)

Question Text *Do records document adequate operator actions taken to correct any identified deficiencies in corrosion control?*

Assets Covered Targa Standard

Result Notes Targa used third party vendor Corrpro to complete all of their CP work for 2015 and 2016 no deficiencies were found for those years. Targa hired third party vendor Mesa to complete all of their CP work in 2017. In 2017 Mesa recommended extending the linear anode near T-205 to encircle the entire tank. Targa completed this work July 21, 2017. No issues.

100. Question Result, ID, References Sat, TD.CPBO.BO.R, 195.589(c) (195.573(d))

Question Text *Do records adequately document when and how cathodic protection systems were inspected on breakout tanks?*

Assets Covered Targa Standard

Result Notes Targa used third party vendor Corrpro to complete all of their CP work for 2015 and 2016. Targa hired third party vendor Mesa to complete all of their CP work in 2017 and current. Reviewed annual CP reports



that are provided to Targa from the 3rd party vendors. All records described when and how cathodic protection systems were inspected on breakout tanks

101. Question Result, ID, References Sat, TD.CPBO.BO.O, 195.573(d)  
Question Text *Are cathodic protection monitoring tests performed correctly on breakout tank bottoms?*  
Assets Covered Targa Standard  
Result Notes CP reads taken during inspection on BO T-205: 12 O'Clock position -3746mV CSE, 3 O'Clock position -2751mV CSE, 6 O'Clock position -3184mV CSE, 9 O'Clock position -890mV CSE.  
  
CP reading at pump station: -1707mV PSP  
  
CP tests were performed correctly by Logan Swanson of MESA his requel for PSP reads is in 2021
102. Question Result, ID, References Sat, TD.CP.MAPRECORD.R, 195.589(a) (195.589(b)) (also presented in: TD.CP, TD.CPMONITOR, TD.CPEXPOSED)  
Question Text *Do maps and or records document cathodic protection system appurtenances that have been installed on pipelines that have been constructed, relocated, replaced, or otherwise changed or been converted to hazardous liquid service?*  
Assets Covered Targa Standard  
Result Notes Reviewed Targa maps showing the locations of CP test stations, rectifiers and anode beds for the tank farm. No issues.
- ### TD.CP: External Corrosion - Cathodic Protection
103. Question Result, ID, References Sat, TD.CP.DEFICIENCY.R, 195.589(c) (195.573(e)) (also presented in: TD.CPBO, TD.CPMONITOR, TD.CPEXPOSED)  
Question Text *Do records document adequate operator actions taken to correct any identified deficiencies in corrosion control?*  
Assets Covered Targa Standard  
Result Notes Targa used third party vendor Corrpro to complete all of their CP work for 2015 and 2016 no deficiencies were found for those years. Targa hired third party vendor Mesa to complete all of their CP work in 2017. In 2017 Mesa recommended extending the linear anode near T-205 to encircle the entire tank. Targa completed this work July 21, 2017. No issues.
104. Question Result, ID, References Sat, TD.CP.MAPRECORD.R, 195.589(a) (195.589(b)) (also presented in: TD.CPBO, TD.CPMONITOR, TD.CPEXPOSED)  
Question Text *Do maps and or records document cathodic protection system appurtenances that have been installed on pipelines that have been constructed, relocated, replaced, or otherwise changed or been converted to hazardous liquid service?*  
Assets Covered Targa Standard  
Result Notes Reviewed Targa maps showing the locations of CP test stations, rectifiers and anode beds for the tank farm. No issues.
105. Question Result, ID, References NA, TD.CP.UNPROTECT.R, 195.589(c) (195.573(b)(1), 195.573(b)(2))  
Question Text *Do records document the adequate re-evaluation of buried pipelines with no cathodic protection for areas of active corrosion?*  
Assets Covered Targa Standard  
Result Notes No such relevant facilities/equipment existed in the scope of inspection review.
106. Question Result, ID, References NA, TD.CP.ISOLATE.R, 195.589(c) (195.575(a), 195.575(b), 195.575(c), 195.575(d))  
Question Text *Do records document adequate electrical isolation of each buried or submerged pipeline from other metallic structures unless they electrically interconnect and cathodically protect the pipeline and the other structures as a single unit?*  
Assets Covered Targa Standard  
Result Notes No such relevant facilities/equipment existed in the scope of inspection review.
107. Question Result, ID, References NA, TD.CP.ISOLATE.O, 195.575(a) (195.575(b), 195.575(c), 195.575(d))

Question Text *Are measures performed to ensure electrical isolation of each buried or submerged pipeline from other metallic structures unless they electrically interconnect and cathodically protect the pipeline and the other structures as a single unit?*

Assets Covered Targa Standard

Result Notes No such relevant facilities/equipment existed in the scope of inspection review.

## TD.CPMONITOR: External Corrosion - Cathodic Protection Monitoring

108. Question Result, ID, References Sat, TD.CPMONITOR.TESTLEADINSTALL.R, 195.589(c) (195.567(b))

Question Text *Do records document that pipelines with cathodic protection have electrical test leads installed in accordance with requirements of Subpart H?*

Assets Covered Targa Standard

Result Notes Reviewed Targa's Corrpro document stating where test stations are located along with Targa's Maps of the facility and pipeline. Electrical test leads are installed in accordance with requirements of Subpart H. No issues.

109. Question Result, ID, References Sat, TD.CP.DEFICIENCY.R, 195.589(c) (195.573(e)) (also presented in: TD.CPBO, TD.CP, TD.CPEXPOSED)

Question Text *Do records document adequate operator actions taken to correct any identified deficiencies in corrosion control?*

Assets Covered Targa Standard

Result Notes Targa used third party vendor Corrpro to complete all of their CP work for 2015 and 2016 no deficiencies were found for those years. Targa hired third party vendor Mesa to complete all of their CP work in 2017. In 2017 Mesa recommended extending the linear anode near T-205 to encircle the entire tank. Targa completed this work July 21, 2017. No issues.

110. Question Result, ID, References Sat, TD.CPMONITOR.TESTLEADMAINT.O, 195.567(c)

Question Text *Are CP test lead wires properly maintained?*

Assets Covered Targa Standard

Result Notes All test lead wires are in protective enclosures and properly maintained

111. Question Result, ID, References Sat, TD.CPMONITOR.MONITORCRITERIA.R, 195.589(c) (195.571)

Question Text *Do records document that CP monitoring criteria used was acceptable?*

Assets Covered Targa Standard

Result Notes Targa uses a negative (cathodic) potential of at least 850 mV with the cathodic protection applied with consideration for IR drop. "on"

112. Question Result, ID, References Sat, TD.CPMONITOR.MONITOR.O, 195.571

Question Text *Do the methods for taking CP monitoring readings allow for the application of appropriate CP monitoring criteria?*

Assets Covered Targa Standard

Result Notes Targa uses the -850mV criteria, all reads that were taken were above -850.

113. Question Result, ID, References Sat, TD.CPMONITOR.TEST.R, 195.589(c) (195.573(a)(1))

Question Text *Do records adequately document required tests have been done on pipe that is cathodically protected?*

Assets Covered Targa Standard

Result Notes Reviewed Targa CP reports from third party vendors, Mesa and Corrpro for 2015-2017. All tests on the tank and the pipeline are within the requirements

114. Question Result, ID, References NA, TD.CPMONITOR.CIS.R, 195.589(c) (195.573(a)(2))

Question Text *Do records document, when circumstances dictated a need for close interval surveys, dates of completed surveys, data from completed surveys and analysis of completed surveys?*

Assets Covered Targa Standard

Result Notes No such activity/condition was observed during the inspection.

115. Question Result, ID, References **Sat, TD.CPMONITOR.CURRENTTEST.R, 195.589(c) (195.573(c))**  
 Question Text *Do records document adequate electrical checks of rectifiers, interference bonds, diodes, and reverse current switches and at the required intervals?*  
 Assets Covered **Targa Standard**  
 Result Notes **Reviewed Targa's monthly rectifier reports from Tom Metcalf and Ted Lilyblade, they perform the visual checks on the rectifier. Ted Lilyblade OQ requalification 10/29/18, Tom Metcalf, no longer with Targa, performed rectifier checks for 2015, 2016 and late 2017, his OQ requalification date is 4/2018. For any physical reads that are taken on the rectifier, MESA does all that work, records showed adequate electrical checks of the rectifier**
116. Question Result, ID, References **Sat, TD.CPMONITOR.CURRENTTEST.O, 195.573(c)**  
 Question Text *Are rectifiers, interference bonds, diodes, and reverse current switches properly maintained and are they functioning properly?*  
 Assets Covered **Targa Standard**  
 Result Notes **Targa has one rectifier, the rectifier looked to be maintained and functioning properly.**  
  
**Rectifier readings: 20A-50mV Shunt, reading across the shunt 2.7VDC, Taps C2 F4**
117. Question Result, ID, References **NA, TD.CPMONITOR.INTFRCURRENT.R, 195.589(c) (195.577(a))**  
 Question Text *Do records document that the operator has an effective program in place to minimize the detrimental effects of interference currents on their pipeline system, and is minimizing detrimental effects of interference currents from their CP systems on other underground metallic structures?*  
 Assets Covered **Targa Standard**  
 Result Notes **No such activity/condition was observed during the inspection. Targa's pipeline is between 24 and 150 feet, there are no interference currents.**
118. Question Result, ID, References **NA, TD.CPMONITOR.INTFRCURRENT.O, 195.577(a)**  
 Question Text *Are areas of potential stray current identified, and if found, the detrimental effects of stray currents minimized?*  
 Assets Covered **Targa Standard**  
 Result Notes **No such activity/condition was observed during the inspection.**
119. Question Result, ID, References **Sat, TD.CP.MAPRECORD.R, 195.589(a) (195.589(b)) (also presented in: TD.CPBO, TD.CP, TD.CPEXPOSED)**  
 Question Text *Do maps and or records document cathodic protection system appurtenances that have been installed on pipelines that have been constructed, relocated, replaced, or otherwise changed or been converted to hazardous liquid service?*  
 Assets Covered **Targa Standard**  
 Result Notes **Reviewed Targa maps showing the locations of CP test stations, rectifiers and anode beds for the tank farm. No issues.**

## **TD.CPEXPOSED: External Corrosion - Exposed Pipe**

120. Question Result, ID, References **NA, TD.CPEXPOSED.EXPOSEINSPECT.R, 195.589(c) (195.569)**  
 Question Text *Do records document that exposed buried piping was adequately examined for corrosion and deteriorated coating?*  
 Assets Covered **Targa Standard**  
 Result Notes **No such event occurred, or condition existed, in the scope of inspection review.**
121. Question Result, ID, References **Sat, TD.CP.DEFICIENCY.R, 195.589(c) (195.573(e)) (also presented in: TD.CPBO, TD.CP, TD.CPMONITOR)**  
 Question Text *Do records document adequate operator actions taken to correct any identified deficiencies in corrosion control?*  
 Assets Covered **Targa Standard**  
 Result Notes **Targa used third party vendor Corrpro to complete all of their CP work for 2015 and 2016 no deficiencies were found for those years. Targa hired third party vendor Mesa to complete all of their CP work in 2017.**

In 2017 Mesa recommended extending the linear anode near T-205 to encircle the entire tank. Targa completed this work July 21, 2017. No issues.

122. Question Result, ID, References **Sat, TD.CPEXPOSED.EXTCORRODEEVAL.R, 195.589(c) (195.587)**  
Question Text *Do records adequately document the evaluation of externally corroded pipe?*  
Assets Covered **Targa Standard**
123. Question Result, ID, References **NA, TD.CPEXPOSED.EXTCORRODEREPAIR.R, 195.589(c) (195.585(a), 195.585(b))**  
Question Text *Do records document the repair or replacement of pipe that has been externally corroded to an extent that there is not sufficient remaining pipe wall strength?*  
Assets Covered **Targa Standard**  
Result Notes **No such event occurred, or condition existed, in the scope of inspection review. Targa's pipeline is between 24 and 150 feet, no repair or replacement of the pipe has been done. No issues**
124. Question Result, ID, References **Sat, TD.CP.MAPRECORD.R, 195.589(a) (195.589(b))** (also presented in: TD.CPBO, TD.CP, TD.CPMONITOR)  
Question Text *Do maps and or records document cathodic protection system appurtenances that have been installed on pipelines that have been constructed, relocated, replaced, or otherwise changed or been converted to hazardous liquid service?*  
Assets Covered **Targa Standard**  
Result Notes **Reviewed Targa maps showing the locations of CP test stations, rectifiers and anode beds for the tank farm. No issues.**

## TD.ICP: Internal Corrosion - Preventive Measures

125. Question Result, ID, References **NA, TD.ICP.INVESTREMEDIATION.R, 195.589(c) (195.579(a))**  
Question Text *Do records document investigation and remediation of the corrosive effects of hazardous liquids or carbon dioxide being transported?*  
Assets Covered **Targa Standard**  
Result Notes **No such event occurred, or condition existed, in the scope of inspection review.**
126. Question Result, ID, References **NA, TD.ICP.INHIBITOR.R, 195.589(c) (195.579(b)(1), 195.579(b)(2), 195.579(b)(3))**  
Question Text *Do records document that corrosion inhibitors have been used in sufficient quantity?*  
Assets Covered **Targa Standard**  
Result Notes **No such event occurred, or condition existed, in the scope of inspection review.**
127. Question Result, ID, References **NA, TD.ICP.EXAMINE.R, 195.589(c) (195.579(c), 195.579(a))**  
Question Text *Do records document examination of removed pipe for evidence of internal corrosion?*  
Assets Covered **Targa Standard**  
Result Notes **No such event occurred, or condition existed, in the scope of inspection review. Targa's pipeline is between 24 and 150 feet, no repair or replacement of the pipe has been done. No issues**
128. Question Result, ID, References **NA, TD.ICP.EVALUATE.R, 195.589(c) (195.587)**  
Question Text *Do records document adequate evaluation of internally corroded pipe?*  
Assets Covered **Targa Standard**  
Result Notes **No such activity/condition was observed during the inspection.**
129. Question Result, ID, References **Sat, TD.ICP.BOLINING.R, 195.589(c) (195.579(d))**  
Question Text *Do records document the adequate installation of breakout tank bottom linings?*  
Assets Covered **Targa Standard**  
Result Notes **T-205 has a Expresscote HCR-FF @20-30 Mills dft liner. The tank is built to API 650 standards and the installation of breakout tank bottom linings are adequate. No issues.**

## TQ.PROT9: OQ Protocol 9

130. Question Result, ID, References Sat, TQ.PROT9.TASKPERFORMANCE.O, 195.501(a) (195.509(a))  
Question Text *Verify the qualified individuals performed the observed covered tasks in accordance with the operator's procedures or operator approved contractor procedures.*  
Assets Covered Targa Standard  
Result Notes Ted Lilyblade and Logan Swanson performed all the covered tasks for the observation portion of the inspection. All covered tasks in accordance with company procedures.
131. Question Result, ID, References Sat, TQ.PROT9.QUALIFICATIONSTATUS.O, 195.501(a) (195.509(a))  
Question Text *Verify the individuals performing the observed covered tasks are currently qualified to perform the covered tasks.*  
Assets Covered Targa Standard  
Result Notes Reviewed Targa Employee Ted Lilyblade's OQ qualifications for: Inspection and Testing, Corrective and Preventative Maintenance - Overfill Protection Systems requalification date 5/31/2021  
Valve - Visual Inspection and Partial Operation requalification date 6/19/2021  
CP tech Logan Swanson MESA requalification 1/2020
132. Question Result, ID, References Sat, TQ.PROT9.AOCRECOG.O, 195.501(a) (195.509(a))  
Question Text *Verify the individuals performing covered tasks are cognizant of the AOCs that are applicable to the tasks observed.*  
Assets Covered Targa Standard  
Result Notes For the covered tasks that were performed Ted Lilyblade and Logan Swanson were cognizant of AOCs
133. Question Result, ID, References Sat, TQ.PROT9.VERIFYQUAL.O, 195.501(a) (195.509(a))  
Question Text *Verify the qualification records are current, and ensure the personal identification of all individuals performing covered tasks are checked, prior to task performance.*  
Assets Covered Targa Standard  
Result Notes Reviewed Targa Employee Ted Lilyblade's OQ qualifications for: Inspection and Testing, Corrective and Preventative Maintenance - Overfill Protection Systems requalification date 5/31/2021  
Valve - Visual Inspection and Partial Operation requalification date 6/19/2021  
CP tech Logan Swanson MESA requalification 1/2020

## TQ.OO: Operator Qualification

134. Question Result, ID, References Sat, TQ.OO.OOCONTRACTOR.R, 195.507(a) (195.507(b))  
Question Text *Are adequate records containing the required elements maintained for contractor personnel?*  
Assets Covered Targa Standard  
Result Notes The only contractor personnel Targa uses are Corrpro for 2015, 2016 and Mesa for 2017 for CP work and Brothers for locating.  
Corrpro Employee: Mark Hernberg is NACE I which is an acceptable level in Targa's standards.  
Mesa Employees: Scott Corfman, Matthew Litz, Logan Swanson, Seth Devlin and David Engh. All employees requalification dates are after 1/2020, No issues  
Brothers Employee: Derek Martin 1/2021 requalification date.

135. Question Result, ID, References **Sat, TQ.OO.RECORDS.R, 195.507(a) (195.507(b))**

Question Text *Do records document the evaluation and qualifications of individuals performing covered tasks, and can the qualification of individuals performing covered tasks be verified?*

Assets Covered **Targa Standard**

Result Notes **Reviewed Targa's OQ status report that has all the employees who perform OQ covered tasks. All employees listed are qualified to do the work. No issues.**

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*Report Parameters: Results: all*

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