

Inspection Output (IOR)

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Inspection Information

Inspection Name	CNG Kennewick 8050	Operator(s)	CASCADE NATURAL GAS CORP (2128)	Plan Submitted	08/27/2020
Status	PLANNED	Lead	Scott Rukke	Plan Approval	08/31/2020 by Joe Subsits
Start Year	2020	Lead+		All Activity Start	01/01/2020
System Type	GD	Team Members	Dennis Ritter, Lex Vinsel, Anthony Dorrough, Derek Norwood, Scott Anderson, Darren Tinnerstet	All Activity End	12/31/2020
Protocol Set ID	GD.2019.01	Observer(s)	Deborah Becker, Rell Koizumi	Inspection Submitted	--
		Supervisor	Joe Subsits	Inspection Approval	--
		Director	Sean Mayo		

Inspection Summary

Inspection Scope and Summary

Two separate Cascade Natural Gas unit inspections:

Aberdeen District #8049 (Completed first)

Kennewick District #8050

Primary Operator contacts and/or participants

Compliance contact is:

Colby Lundstrom

David Gutschmidt

See attendance forms for participants.

Facilities visited and Total AFOD

Records review for Kennewick and Aberdeen started on 10/7/2020. Records were set up for electronic review rather than in office review due to Covid-19 concerns. Time spent reviewing electronic records should be considered AFOD's. They were added to my timesheets under plan and procedure review.

Kennewick:

Kennewick records were reviewed electronically along with Aberdeen records starting on 10/7/2020 through 10/22/2020

Field and office

11/8/2020 – drive and prep

11/9/2020 - in office reviewing remaining records.

11/10/2020 - field inspection

11/11/2020 - drive home and documentation

4 AFOD Days for Kennewick

Kennewick Exit Interview:

11/18/2020 by electronic correspondence.

Summary of Significant Findings

Finding(s): (Kennewick District)
One area of concern written for 192.1007.

CNG has di-thiazine in their distribution system. During field reviews conducted during this inspection the Southridge Gate Station regulator R-120 failed to lock up due to a di-thiazine compound on a Mooney regulator and pilot. This should be added to CNG's DIMP plan as a threat.

Scope (Assets)

#	Short Label	Long Label	Asset Type	Asset IDs	Excluded Topics	Planned	Required	Inspected	Total	Required % Complete
1.	Kennewick 8050	CNG Kennewick 8050	other	Kennewick	Compressor Stations Storage Fields Bottle/Pipe - Holders Offshore GOM OCS Cast or Ductile Iron Copper Pipe Aluminum pipe Abandoned	92	92	92	92	100.0%

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

Plans

#	Plan Assets	Focus Directives	Involved Groups/Subgroups	Qst Type(s)	Extent	Notes
1.	Kennewick 8050	n/a	PRR.PT, PRR.REPORT, TQ.QU.CORROSION.R, TD.CPMONITOR.TESTSTATION.R, TD.CPMONITOR.TESTLEAD.R, TD.CPMONITOR.INTFRCURRENT.R, TD.ICP.EXAMINE.R, TD.ATM.ATMCORRODEINSP.R, TD.ICP.REPAIR.R, TD.ICP.EVALUATE.R, TD.CP.RECORDS.R, TD.CPMONITOR.CURRENTTEST.R, TD.CPEXPOSED.EXPOSEINSPECT.R, TD.CPMONITOR.TEST.R, TD.CPMONITOR.REVCURRENTTEST.R, TD.CPMONITOR.DEFICIENCY.R, TD.CP.UNPROTECT.R, TD.CP.ELECISOLATE.R, MO.GOUPRATE.MAOPINCREASE.R, MO.GOUPRATE.MAOPINCREASELIMIT.R, MO.GOUPRATE.MAOPINCREASEPREP.R, MO.GO.OMANNUALREVIEW.R, PD.PA.LANGUAGE.R, EP.ERG.INCIDENTANALYSIS.R, MO.GOMAOP.MAOPDETERMINE.R, MO.GOODOR.ODORIZE.R, MO.RW.DISTPATROL.R, MO.RW.DISTPATROLLEAKAGE.R, MO.GO.OMHISTORY.R, AR.RMP.TESTREINSTATE.R, MO.GMOPP.PRESSREGTEST.R, MO.GMOPP.PRESSREGCAP.R, MO.GM.DISTVALVEINSPECT.R, FS.FG.VAULTINSPECTFAC.R, DC.WELDPROCEDURE.WELD.R, MO.GO.OMEFFECTREVIEW.R,	P, R, O, S	Detail	

# Plan Assets	Focus Directives	Involved Groups/Subgroups	Qst Type(s)	Extent	Notes
		TQ.QUOMCONST.WELDER.R, TQ.QUOMCONST.NDT.R, DC.CO.PLASTICJOINTPROCEDURE.R, DC.CO.PLASTICJOINTQUAL.R, DC.CO.PLASTICJOINTINSR.R, MO.GM.RECORDS.R, MO.GOABNORMAL.ABNORMALREVIEW.R, PD.OC.PDPROGRAM.R, EP.ERG.POSTEVTREVIEW.R, EP.ERG.TRAINING.R, EP.ERG.LIAISON.R, DC.MA.MARKING.O, DC.METERREGSVC.SVCLINECONNECT.O, DC.METERREGSVC.SVCLINEMATERIAL.O, DC.METERREGSVC.NEWSVCLINENOTUSED.O, DC.METERREGSVC.EXCSFLOWVLVLOCATE.O, TD.COAT.NEWPIPEINSTALL.O, TD.CPMONITOR.MONITORCRITERIA.O, TD.CPMONITOR.CURRENTTEST.O, TD.CP.ELECISOLATE.O, TD.CPMONITOR.TESTSTATION.O, TD.CPMONITOR.TESTLEAD.O, DC.DPC.FLANGE.O, TD.ATM.ATMCORRODEINSP.O, MO.GOODOR.ODORIZE.O, MO.GO.PURGE.O, DC.DPC.GDVALVEPLACEMENT.O, MO.RW.ROWMARKER.O, MO.RW.ROWMARKERABOVE.O, MO.GMOPP.PRESSREGTEST.O, MO.GMOPP.PRESSREGMETER.O, MO.GM.DISTVALVEINSPECT.O, AR.RMP.IGNITION.O, DC.METERREGSVC.CUSTOMETERREGLOC.O, DC.METERREGSVC.CUSTOMETERREGPROT.O, DC.METERREGSVC.CUSTOMETERREGINSTALL.O, DC.METERREGSVC.SVCLINEINSTALL.O, DC.METERREGSVC.SVCLINEVLVLOCATEREQT.O, TQ.OO.RECORDS.R, TQ.OO.ABNORMAL.O, TQ.OO.PERFMONITOR.P, TQ.OO.OOPLAN.O, EP.ERG.LIAISON.R, TQ.OO.OOPLANCONTRACTOR.P, TQ.OO.OOCONTRACTOR.P, TQ.PROT9.QUALIFICATIONSTATUS.O, TQ.PROT9.TASKPERFORMANCE.O, TQ.PROT9.AOCRECOG.O			

Plan Implementations

# Activity Name	SMAR T Act#	Start Date	Focus Directives	Involved Groups/Subgroups	Qst Asset Type(s)	Planned	Required	Total Inspected	Required % Complete
1. Kennewick Aberdeen Office and Field	--	01/01/2020 12/31/2020	n/a	all planned questions	all asset types	184	184	184	100.0%

1. Since questions may be implemented in multiple activities, but answered only once, questions may be represented more than once in this table.
2. Percent completion excludes unanswered questions planned as "always observe".

Forms

No.	Entity	Form Name	Status	Date Completed	Activity Name	Asset
1.	Attendance List	11/9/2020 Kennewick Office	COMPLETED	11/09/2020	Kennewick Aberdeen Office and Field	Kennewick 8050
2.	Attendance List	Kennewick Field 11/10/2020	COMPLETED	11/18/2020	Kennewick Aberdeen Office and Field	Kennewick 8050

Results (Unsat,Concern values, 1 result)

GDIM.TH: Identify Threats

2. Question Result, ID, References **Concern, GDIM.RA.THREATCATEGORIES.P, 192.1007(b)**

Question Text *In identifying threats, do the procedures include consideration of all of the required threat categories to each gas distribution pipeline?*

Assets Covered **Kennewick 8050**

Result Issue Summary **CNG's Southridge Regulator Station R-120 failed to lock up due to Di-thiazine buildup on a Mooney FG-52 regulator and S-20 pilot.**

The set point on the working regulator was 55 psig. Inlet pressure to the station was 476 psig. During a lock up test of the Mooney regulator the downstream valve was shut off and a gauge installed. Flow was moved to the standby regulator. The Mooney regulator being tested failed to lock up and downstream pressure between the Mooney FG-52 and valve quickly built up to 476 psig.

The failed Mooney FG-52 was disassembled. A fine yellowish powder was observed on the Mooney body, grid plate and rubber boot. The S-20 pilot stem was also removed. A very small amount of a fine yellowish/white powder was visible. The regulator body and grid plate were cleaned, a new boot and pilot stem installed and the regulator and pilot were reassembled and re-tested. The regulator locked up at 54.7 psig.

The powder is assumed to be a sulfur/di-thiazine compound.

Previous maintenance records indicated the presence of di-thiazine.

Discussed with CNG personnel on 11/10/2020:

CNG should consider processes and procedures to ensure dithiazine does not prevent lock up in regulator stations. The Southridge Gate Station R-120 had maintenance performed in March 2020 and failed to lock up in November 2020. A decrease in the timeframe between inspections may be necessary until a more permanent solution is implemented either by CNG or your supplier. CNG's DIMP procedures should be modified to list di-thiazine compounds as a threat to your distribution systems.

Report Parameters: Results: Concern

Except as required to be disclosed by law, any inspection documentation, including completed protocol forms, summary reports, executive summary reports, and enforcement documentation are for internal use only by federal or state pipeline safety regulators. Some inspection documentation may contain information which the operator considers to be confidential. In addition, supplemental inspection guidance and related documents in the file library are also for internal use only by federal or state pipeline safety regulators (with the exception of documents published in the federal register, such as advisory bulletins). Do not distribute or otherwise disclose such material outside of the state or federal pipeline regulatory organizations. Requests for such information from other government organizations (including, but not limited to, NTSB, GAO, IG, or Congressional Staff) should be referred to PHMSA Headquarters Management.