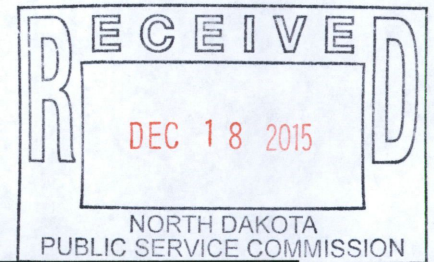


PUBLIC SERVICE COMMISSION  
STATE OF NORTH DAKOTA



Public Service Commission  
City of Granville  
Pipeline Safety Enforcement

Case No. GS-15-723

**CITY OF GRANVILLE'S RESPONSE  
TO NOTICE OF PROBABLE VIOLATIONS**

**Alleged Violation 1: Respondent did not test the capacity of relief device #14 in 2014 or determine the capacity by review and calculations.**

The lack of testing of relief device #14 was an oversight that occurred as a result of the City's maintenance employee's termination of his employment. The City's maintenance employee, Taylor Stassens, ended his employment effective August 8, 2014. Relief device #14 had been tested by the City in 2011, 2012 and 2013. See Exhibit #1 (Relief Valve Inspection Reports). Although Mr. Stassens left a task list, in retrospect, it did not provide enough detail. The City did promptly arrange for Mr. Blodgett's propane training, sending him to his first propane training course on August 28, 2014 – less than one month after he was hired. The City also maintained communication with the PSC Inspector during Mr. Blodgett's transition into the maintenance position. See Exhibit 2 (email communications between City and PSC Inspector). The City also continued its efforts to get Mr. Blodgett qualified to perform the actions required by the City's propane system. See Exhibit 3 (Paul Blodgett qualification documentation). However, the location of relief device #14 in the City's system presents a problem which has interfered with testing. Due to its location, if relief device #14 were to fail during testing, the City's entire system would have to be shut down – an undesirable outcome in December in North Dakota. Although the City has not observed any problems with relief device #14 and believes it to be in good working order, the City is working to identify a solution that will allow testing to

occur without risking a shutdown of the entire propane system and will provide an update as soon as that occurs.

**Alleged Violation 2: In 2014, Respondent did not check or service distribution valve #12 as required under 49 CFR 192.747 (a).**

The lack of testing of distribution valve #12 was an oversight that occurred as a result of the City's maintenance employee's termination of his employment. The City has taken corrective action and the distribution valve was found to be in working order. Valve #12 was tested in 2011, 2012 and 2013. See Exhibit 4 (Propane System Key Valve Inspection Reports). As noted, the task list left by the City's prior maintenance employee did not provide enough detail and the distribution valve testing did not occur. However, as Exhibit 2 shows, the City was communicating with the PSC Inspector in an attempt to identify and address system testing and maintenance issues. Distribution valve #12 was tested by Jeff Haugen on December 11, 2015 and found to be in working order. See Exhibit #5 (Valve #12 testing report and Jeff Haugen OQ).

**Alleged Violation 3: In 2014 Respondent did not test their cathodic protection system as required under 49 CFR 192.465 (a).**

The City's records show that its cathodic protection system was tested by Mr. Blodgett in 2014. Although Mr. Blodgett had been trained to perform this testing, he had not obtained certification in 2014. Mr. Blodgett was certified on June 16, 2015. See Exhibit 3. The cathodic protection system had also been tested in 2011, 2012 and 2013 and was also tested in 2015.

**Alleged Violation 4: Respondent did not conduct a pressure test on a segment of system pipeline repaired on February 12, 2014, as required under 49 CFR 192.513 (a).**

The City retained MDU to repair a damaged section of pipe in 2014, relying on the qualifications and expertise of MDU. On September 11, 2015, the City was informed by the PSC that MDU had not completed a required pressure test report. The City Auditor immediately contacted

MDU and requested a detailed test report or other verification by the technician that performed the repair. MDU indicated that, although the technician was no longer an employee, his manager would supply the needed information. The City forwarded MDU's report to the PSC on September 15, 2015, as soon as it was received. The PSC advised the City that the "start" and "stop" times of the pressure testing could not be verified but allowed the City to continue operating the pipe until it could be retested. On September 16, 2015, the City forwarded the PSC's response to MDU and requested a retest of the repaired pipe. MDU attempted to locate records from the pipe's manufacturer but, on September 22, 2015, MDU notified the City the records could not be located and the repaired section of pipe would have to be replaced. The City Auditor contacted MDU to request retesting on October 23, 2015 after PSC Inspector Morman recommended the City pressure test the repaired section of pipe. The City Auditor followed up again with MDU on October 30, 2015, November 6, 2015 and November 10, 2015. On November 10, 2015 (after the City had been threatened with a shutdown of its system), MDU agreed to replace the section of pipe on November 12, 2015. See Exhibit 6 (e-mail correspondence between City and MDU). The City requested a one-call locate on November 11, 2015 and the City Auditor drove to Bismarck, ND to obtain parts needed for the replacement. Iron Horse Hydravac reopened the hole and MDU replaced the repaired pipe on November 12, 2015. MDU paperwork pertaining to the replacement pipe and test records was immediately forwarded to the PSC Inspector, who confirmed that it was satisfactory.

## **CONCLUSION**

The City recognizes that some testing was overlooked in 2014 as a result of the transition between maintenance employees. However, the City believes that it has taken reasonable steps to train and qualify Mr. Blodgett. Distribution Valve #12 has been tested and found to be in

working order. The City's cathodic protection system was tested in 2014 and no problems were identified. While Mr. Blodgett may not have been certified to perform the testing at the time, he had been trained at the time and was subsequently formally certified. The City relied on the expertise of MDU to repair and properly test a leaking section of pipe and worked diligently with the PSC Inspector to try to obtain the requested information from MDU. When that proved unsuccessful, the City took action to replace the section of pipe lacking documentation – even going so far as to have the City Auditor drive to Bismarck to obtain the parts needed to perform the replacement. In short, the City believes that the proposed penalties would be inequitable given the facts and circumstances and requests that they be waived.

ATTEST:

*Amita Trance*  
City Auditor

12/16/2015  
Date

*Jerry L. Anderson*  
Mayor

12/16/15  
Date

**CITY OF GRANVILLE**  
**Transactions by Account**  
 As of December 16, 2015

Type	Date	Num	Name	Memo	Class	Clr	Split	Amount	Balance
<b>Propane Expense</b>									
<b>Propane Maintenance</b>									
Bill	01/06/2015		SOUTHERN CR...	2014 Under...	Propane		Accounts Pa...	1,762.00	1,762.00
Bill	01/06/2015		ND One Call	November ...	Propane		Accounts Pa...	5.50	1,767.50
Bill	01/06/2015		D & L Sales & S...	Replaceme...	Propane		Accounts Pa...	520.00	2,287.50
Bill	01/06/2015		ND PROPANE A...	Propane S...	Propane		Accounts Pa...	755.12	3,042.62
Bill	01/06/2015		Menards	Nipple, tap...	Propane		Accounts Pa...	15.99	3,058.61
Bill	02/06/2015		Menards	Propane pa...	Propane		Accounts Pa...	79.21	3,137.82
Bill	02/06/2015		Menards	Storage bui...	Propane		Accounts Pa...	555.42	3,693.24
Bill	03/09/2015		ND Pipeline Ass...	2015 Public...	Propane		Accounts Pa...	520.00	4,213.24
Bill	03/09/2015		Northern Testing	2015 Assoc...	Propane		Accounts Pa...	30.00	4,243.24
Bill	03/09/2015		Menards	Propane Ta...	Propane		Accounts Pa...	17.82	4,261.06
Bill	04/14/2015		ND One Call	Digging fees	Propane		Accounts Pa...	1.10	4,262.16
Bill	04/14/2015		Menards	Refill propa...	Propane		Accounts Pa...	20.80	4,282.96
Bill	05/05/2015		AUX SABLE	Public Awa...	Propane		Accounts Pa...	495.00	4,777.96
Bill	06/02/2015		ND One Call	Digging	Propane		Accounts Pa...	7.70	4,785.66
Bill	06/02/2015		Northern Testing	A Trana's ...	Propane		Accounts Pa...	65.00	4,850.66
Bill	07/14/2015		ND One Call	June diggin...	Propane		Accounts Pa...	18.70	4,869.36
Bill	07/14/2015		FEI	Electrodes ...	Propane		Accounts Pa...	334.56	5,203.92
Bill	07/14/2015		PKI Safety Supply	4 Way Gas...	Propane		Accounts Pa...	1,705.00	6,908.92
Bill	09/14/2015		Subsurface Instr...	AML locate...	Propane		Accounts Pa...	2,725.00	9,633.92
Bill	09/14/2015		ND One Call	Digging	Propane		Accounts Pa...	9.90	9,643.82
Bill	09/14/2015		Liquid Distributio...	Plant press...	Propane		Accounts Pa...	897.90	10,541.72
Bill	10/05/2015		FEI	Leak Detec...	Propane		Accounts Pa...	79.11	10,620.83
Bill	10/05/2015		B&H Utility Servi...	Propane A...	Propane		Accounts Pa...	2,097.00	12,717.83
Bill	10/05/2015		B&H Utility Servi...	Propane Li...	Propane		Accounts Pa...	1,556.25	14,274.08
Bill	10/05/2015		Grant Contractor...	Painting of ...	Propane		Accounts Pa...	5,973.00	20,247.08
Bill	11/06/2015		Liquid Distributio...	Tank Manif...	Propane		Accounts Pa...	9,322.28	29,569.36
Bill	11/06/2015		ND One Call	Digging	Propane		Accounts Pa...	9.90	29,579.26
Bill	11/06/2015		SOUTHERN CR...	2015 Abov...	Propane		Accounts Pa...	9,500.00	39,079.26
<b>Total Propane Maintenance</b>								<b>39,079.26</b>	<b>39,079.26</b>
<b>Total Propane Expense</b>								<b>39,079.26</b>	<b>39,079.26</b>
<b>TOTAL</b>								<b>39,079.26</b>	<b>39,079.26</b>

**CITY OF GRANVILLE**  
**Transactions by Account**  
 As of December 16, 2015

Type	Date	Num	Name	Memo	Class	Cir	Split	Amount	Balance
<b>Propane Expense</b>									
<b>Propane Training</b>									
Bill	01/06/2015		Seven Seas	Paul Blodg...	Propane		Accounts Pa...	291.00	291.00
Bill	01/06/2015		Midwest Energy ...	Online train...	Propane		Accounts Pa...	300.00	591.00
Bill	04/15/2015		NDPGA	P Blodgett...	Propane		Accounts Pa...	235.00	826.00
Bill	06/02/2015		PAUL BLODGET...	P Blodgett ...	Propane		Accounts Pa...	266.00	1,092.00
Bill	06/02/2015		expressway suit...	P Blodgett ...	Propane		Accounts Pa...	239.85	1,331.85
Bill	09/14/2015		NDPGA	Propane S...	Propane		Accounts Pa...	16.59	1,348.44
Bill	10/05/2015		Midwest Energy ...	Online ann...	Propane		Accounts Pa...	300.00	1,648.44
Bill	10/05/2015		NDPGA	November ...	Propane		Accounts Pa...	125.00	1,773.44
Total Propane Training								1,773.44	1,773.44
Total Propane Expense								1,773.44	1,773.44
<b>TOTAL</b>								<b>1,773.44</b>	<b>1,773.44</b>

**CITY OF GRANVILLE**  
**ANNUAL BUDGET FOR THE YEAR ENDING DECEMBER 31 2015**  
**ENTERPRISE FUNDS**

<b>PROPANE FUND</b>	<u>ACTUAL 2013</u>	<u>ESTIMATED REVENUE 2014</u>	<u>ESTIMATED REVENUE 2015</u>
<u>REVENUES: Operating Revenues</u>			
PROPANE SALES	\$ 160,660.61	\$ 250,000.00	\$ 200,000.00
PROPANE CONNECTION FEES	\$ 650.00	\$ 750.00	\$ 700.00
PROPANE MISC	\$ 705.00	\$ 100.00	\$ 100.00
INTERST SAVINGS/CD	\$ 329.65	\$ 300.00	\$ 300.00
<b>Total Revenues</b>	<b>\$ 162,345.26</b>	<b>\$ 251,150.00</b>	<b>\$ 201,100.00</b>

	<u>ACTUAL 2013</u>	<u>ESTIMATED EXP 2014</u>	<u>ESTIMATED EXP 2015</u>
<u>EXPENDITURES: Operating Expenditures</u>			
SALRAIES	\$ 17,224.43	\$ 14,000.00	\$ 12,500.00
PROPANE PURCHASE	\$ 127,241.94	\$ 225,000.00	\$ 150,000.00
INSURANCE	\$ 662.25	\$ 500.00	\$ 800.00
UTILITIES/PHONE	\$ 1,078.11	\$ 4,600.00	\$ 5,000.00
BILILNG COSTS	\$ 780.65	\$ 500.00	\$ 500.00
REPAIR & MAINTENANCE	\$ 13,341.62	\$ 14,500.00	\$ 15,000.00
METER REFUNDS	\$ 1,029.73	\$ -	\$ -
PROPANE MISC	\$ 1,331.02	\$ -	\$ -
PSC FINE	\$ -	\$ -	\$ -
PROPANE TRAINING	1335.81	\$ 1,500.00	\$ 2,000.00
LEGAL FEES	\$ -	\$ -	\$ -
<b>Total Expenditures</b>	<b>\$ 164,025.56</b>	<b>\$ 260,600.00</b>	<b>\$ 185,800.00</b>

<b>Net Income</b>	<b>\$ (1,680.30)</b>	<b>\$ (9,450.00)</b>	<b>\$ 15,300.00</b>
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<b>Balance January 1</b>	<b>\$ 56,428.37</b>	<b>\$ 51,373.07</b>	<b>\$ 37,923.07</b>
Transfers In	\$ -	\$ 22,935.67	\$ -
Transfers Out	\$ 3,375.00	\$ 26,935.67	\$ 4,000.00
<b>Balance December 31</b>	<b>\$ 51,373.07</b>	<b>\$ 37,923.07</b>	<b>\$ 49,223.07</b>

CITY OF GRANVILLE  
Relief Valve Inspection Reports

4 - Relief Valves on Top of Tank

Make Rego Type \_\_\_\_\_ Size 2 1/2" Date Installed \_\_\_\_\_  
Pressure Setting 250 psi Connection Pipe Size 2 1/2" Vent Stack Size 3"  
CONDITION: Caps on, clean, look good  
REPAIRS MADE: None  
REMARKS: expire on 10-28-15

Relief Device on each Vaporizer

North Vaporizer

Make Fisher Size 3/4"  
Ser. No. H-180-250  
Pressure Setting 250 psi  
Date Installed 10-05  
Relief Pressure 250 psi

Center  
Fisher  
Size 3/4"  
Ser. No. H-180-250  
Pressure Setting 250 psi  
250 psi

South Vaporizer

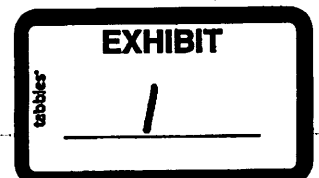
Make Fisher Size 3/4"  
Ser. No. H-180-250  
Pressure Setting 250 psi  
Date Installed 12-23-10  
Relief Pressure 250 psi

CONDITION: (north) good - cleaned & serviced  
(south) good - cleaned & serviced } leak checked all fittings and valves  
Middle good - cleaned & serviced } in vaporizer room  
REPAIRS MADE: (north) just clean & adj  
(south) "  
Middle "  
REMARKS: Middle vaporizer was fixed by cleaning out burners & orifice  
is scheduled for replacement in 2014

Distribution Relief Device

Make Fisher 63E6 Ser. No. 131912 98 Size 3"  
Location Distribution line  
Pressure Setting 18 psi Date Installed 10-24-04  
Relief Pressure 18 psi Reset Pressure 17 1/2 psi  
CONDITION: good  
REPAIRS MADE: None  
REMARKS: \_\_\_\_\_

Signature of Inspector(s) Jayson Date 9/4/13



CITY OF GRANVILLE  
Relief Valve Inspection Reports

4 - Relief Valves on Top of Tank

Make Rego Type \_\_\_\_\_ Size 2 1/2" Date Installed 10/28/10  
Pressure Setting 250psi Connection Pipe Size 2 1/2" Vent Stack Size 3"  
CONDITION: Caps all present, no debris & clean, weepholes clear  
REPAIRS MADE: None  
REMARKS: expiration date 10-28-15

Relief Device on each Vaporizer

North Vaporizer

Make Fisher Size 3/4"  
Ser. No. H-180-250  
Pressure Setting 250psi  
Date Installed 10-05  
Relief Pressure 250psi

Middle

Make Fisher 3/4"  
Ser. No. H-180-250  
Pressure Setting 250psi  
Date Installed 10-05  
Relief Pressure 250psi

South Vaporizer

Make Fisher Size 3/4"  
Ser. No. H-180-250  
Pressure Setting 250psi  
Date Installed 12-23-10  
Relief Pressure 250psi

CONDITION: (north) Cleaned & leak checked  
(south) Cleaned & leak checked  
(middle) turned off, needs repairs in spring. leak checked  
REPAIRS MADE: (north) None  
(south) None  
(middle) None  
REMARKS: Middle Vaporizer is off.

Middle Vaporizer has pilot & burner problems. Will repair in Spring 2013

Distribution Relief Device

Make Fisher 63E6 Ser. No. 131912 98 Size 3"  
Location Distribution line  
Pressure Setting 18psi Date Installed 10-24-04  
Relief Pressure 18psi Reset Pressure 17 1/2psi  
CONDITION: good  
REPAIRS MADE: None  
REMARKS: Pressure tested 10-18-12

Signature of Inspector(s) Taylor Jan Date 10-18-12

CITY OF GRANVILLE  
Relief Valve Inspection Reports

4 - Relief Valves on Top of Tank

Make Rego Type \_\_\_\_\_ Size 2 1/2" Date Installed 10-28-10

Pressure Setting 250 lbs Connection Pipe Size 2 1/2" Vent Stack Size 3"

CONDITION: Weepholes open, caps free moving, Free From Debris

REPAIRS MADE: changed out relief valves 10-28-10

REMARKS: Need to change again by 10-28-15

Relief Device on each Vaporizer

North Vaporizer

middle

South Vaporizer

Make Fisher Size 3/4"  
Ser. No. H-180-250  
Pressure Setting 250  
Date Installed 10-05  
Relief Pressure 250

Fisher 3/4"  
H-180-250  
250  
10-05  
250

Make Fisher Size 3/4"  
Ser. No. H-180-250  
Pressure Setting 250  
Date Installed 12-23-10  
Relief Pressure 250

CONDITION: (north) Good  
(south) Good  
middle Good

REPAIRS MADE: (north) cleaned + leak checked  
(south) cleaned + leak checked  
middle cleaned + leak checked } 11-25-11

REMARKS: South Vaporizer completely Replaced 12-23-10

Distribution Relief Device

Make Fisher b3EG Ser. No. 131912 98 Size 3"

Location Distribution Line

Pressure Setting 18 lbs Date Installed 10-24-04

Relief Pressure 18 lbs Reset Pressure 17 1/2 lbs

CONDITION: Good

REPAIRS MADE: none

REMARKS: Pressure Tested 12-1-11

Signature of Inspector(s) Karl D. Dadr Date 12-1-11

**City of Granville**

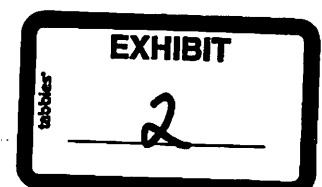
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**From:** "City of Granville" <granville@srt.com>  
**Date:** Friday, November 21, 2014 12:57 PM  
**To:** "Aaron A. Morman" <aarmorman@nd.gov>  
**Attach:** PROPANE TASKS.docx  
**Subject:** Granville Task List

Aaron,

I have been working hard on reviewing the City's plans all morning and have come up with a Task List. If you wouldn't mind taking a look at this when you can I would appreciate that. I also cannot locate proof that our Propane Safety mailer was supplied to the residents this year in 2014 so I am having more pamphlets ordered through the NDGPA and will get them out here in December so it has at least been done once. Our plan says to do it in January and July so I am guessing that Taylor missed this item this past year and I didn't realize it. I will keep doing what I can to better improve where we are at. My next step now is to compare this Task list with what has been and not been done in 2014. I will keep you posted of my results.

Thank You  
Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369



**City of Granville**

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**From:** "City of Granville" <granville@srt.com>  
**Date:** Friday, December 05, 2014 12:11 PM  
**To:** "Morman, Aaron A." <aarmorman@nd.gov>  
**Subject:** Re: Granville Propane System

Aaron,

I spoke with the NDPGA representative Ken Kraft this morning regarding our operators' training and details that have been covered within his last 2 classes which he has received certification for. Mr. Kraft informed me that Plant operations as well as Basics covered Sniff Testing, Leak Testing, Valve and Gauge inspection and the details of Shutting down meters and reestablishing gas. Huge breath taken. We have a lot of work to get caught up on.

Taylor's OQ chart is so specific as he attended Vapor Distribution Training and that looks like where he got most of his certification and listed that as the source of training. Mr. Kraft informed me that he would be able to vouch for Mr. Blodgett knowing how and what to do in the case it was questioned. He also stated with the indoor/outdoor training hopefully scheduled for February that he should be 100% covered for servicing and maintaining the plant and distribution system. Of course I am still researching other training courses offered through ENERGYU and other resources.

I will check back with the NDPA for the training issue and keep you posted of all of our progress here.

Thank you again for all of your assistance.

Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369

Morman, Aaron A.

**Sent:** Thursday, December 04, 2014 4:24 PM  
**To:** City of Granville  
**Subject:** RE: Granville Propane System

Anita.  
Please see my comments in RED below.

Aaron

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**From:** City of Granville [mailto:granville@srt.com]  
**Sent:** Thursday, December 04, 2014 11:36 AM  
**To:** Morman, Aaron A.

12/2/2015

**Subject: Granville Propane System**

Aaron,

I have a few questions that have come up for you hoping you would be able to help clarify for me.

1. If we become a member of the NDPA Association my understanding is they host training sessions. The County Sherriff's office informed me that they have all had NIMS; ICS 100 and ICS 200 (required for law enforcement) that covers these situations and they do not believe it would not be worth their time to sit through all the training which doesn't pertain to their duties. The Fire Department stated they would do whatever is needed to comply. **My question is if we become a member and the training sessions are announced and yet the responders do not attend, does the City still meet the satisfaction of providing training as required as long as I provide a copy of our Emergency Plan? I did receive a form for request to complete to become a member.**  
I would check with the NDPA people to see how they handle training sessions and if you could train along with the other operators in the NDPA at the joint community training sessions. They hold the sessions throughout the winter and early spring months at different locations around the state.
2. Is the City operator qualified to turn gas off at the City meter? He has had Basic Practices and Principle training along with Plant training. I am questioning this as we have customers that are falling behind on their utility bills and the option that has been in place for the City previously has been providing the consumer with a termination notice if the bill is not paid in full. My suggestion at this point would be to read through your OQ plan. You have a task in your plan, #38 named "Abandoning Facilities". See if you can find in the previous year's records, training information for the previous city technicians such as Taylor. See how they were trained and who trained them. I know it's a lot to take in, but your OQ plan should explain what is needed for training on a specific task.

If you could take time to help me with feedback for these 2 questions that would be helpful. Thanks for all of your help so far.

Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369

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12/2/2015

**City of Granville**

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**From:** "City of Granville" <granville@srt.com>  
**Date:** Wednesday, February 04, 2015 9:10 AM  
**To:** "Morman, Aaron A." <aarmorman@nd.gov>  
**Subject:** Re: Program updates/audits

Aaron,

I did get to go to the meeting held in Minot along with 6 of the volunteer firefighters from our district and of course Paul, the new city operator. I also know that our Fire Chief attended the one in Rugby but I was not able to make it that day. I was very proud of our volunteers for making this a priority and taking time out of their day! I had a great time as I was able to briefly explain our system and why we were there as well as I got to visit with Bob and have made a good connection with Rich Brierly from Whiting. Bob stated he was going to try to schedule a time as well to come in and visit with us more about they system here and the plan requirements.

Since then I have been sorting through older files and I have found that the main relief valve needs replacing this year which is the one on top of the tank and that the tank needs to be painted. We discussed these items at Monday nights Council meeting and I will be working on bids and resources to get those required items completed. We are in the process of sending our Odorator in to get recalibrated as well so the Sniff tests can be properly preformed.

I have came to the realization that there is constant work and updates surrounding our system and plan and I want you to be reassured that I am continuously making this a priority on my list of items to make sure things are recorded and updated.

Thank You!  
Anita Trana  
City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369

**From:** Morman, Aaron A.  
**Sent:** Tuesday, February 03, 2015 4:05 PM  
**To:** City of Granville  
**Subject:** RE: Program updates/audits

Anita.

I didn't ask, but were you able to get in on some of the NDPA meeting dinners around the state so far? They are good to attend and a lot of good information is exchanged at these meetings. If not, there are still a few coming up in February. I plan on attending the meeting in Fargo and possibly in Gwinner.

Aaron A Morman  
State of North Dakota  
Public Service Commission

12/2/2015

ND Gas Pipeline Safety  
Program Manager/Inspector  
Cell phone: 701-220-5779  
Fax: 701-328-2410  
aarmorman@nd.gov

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**From:** City of Granville [mailto:granville@srt.com]  
**Sent:** Thursday, January 08, 2015 9:04 AM  
**To:** Morman, Aaron A.  
**Subject:** Re: Program updates/audits

Aaron,

I am pretty sure from what you sent that our plans that you have are not the most current ones that are on record for the City of Granville. Here is what I have on file.

I also did get the council's approval to become a member of the NDPA so that is the works for the upcoming year.

Thank You,  
Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369

**From:** Morman, Aaron A.  
**Sent:** Wednesday, January 07, 2015 10:34 AM  
**To:** Richard.Brierley@whiting.com ; granville@srt.com ; Kallberg, Elisabeth M ; Perez, Karen ; richard.chaska@oneok.com ; Kevin Maloney ; Schoepp, Michael ; Bob Bachmeyer (701-628-9397) ; mailto:Michael.Schoepp@mdu.com ; danny.hood@mdu.com  
**Subject:** Program updates/audits

*Greetings to all.*

*I am writing to inquire as to whether I could get your most recent updated O & M, OQ, PAP plans, etc.. I am planning on trying to get through each of the OQ programs to start with and we'll see where it goes from there. If you feel I already have your most recent plans, let me know also.*

Aaron A Morman  
State of North Dakota  
Public Service Commission  
ND Gas Pipeline Safety  
Program Manager/Inspector  
Cell phone: 701-220-5779  
Fax: 701-328-2410  
aarmorman@nd.gov

12/2/2015

**City of Granville**

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**From:** "City of Granville" <granville@srt.com>  
**Date:** Wednesday, February 25, 2015 12:15 PM  
**To:** "Morman, Aaron A." <aarmorman@nd.gov>  
**Subject:** Re: On-site OQ records visit

Aaron,

The only times Granville would not be available are March 9th -11th, 17th and 18th. Plus then April 13th-15th. Otherwise, a day's notice would be all we would need to make time for you.

Thank You,  
Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369

**From:** Morman, Aaron A.  
**Sent:** Tuesday, February 24, 2015 4:11 PM  
**To:** Bob Bachmeier (701-628-9397) ; Richard.Brierley@whiting.com ; karen.perez@oneok.com ; mailto:DKnoll@bepc.com ; granville@srt.com ; mailto:kmaloney@hilandpartners.com ; mailto:martin@thecompgroup.com ; mailto:daryl.anderson@mdu.com ; mailto:Michael.Schoepp@mdu.com ; Kaliberg, Elisabeth M ; thuffer@targaresources.com  
**Subject:** On-site OQ records visit

*Greetings.*

*I am writing in regards to the Operator Qualifications on-site records audit I will be scheduling with each of you. Can you respond to me to let me know how much advance notice you will need to arrange for the personnel you will need to be in attendance at this records review. I realize that some of you may want to have some people in attendance that may have to travel. In planning ahead, if the records are in order, I wouldn't anticipate the review to take longer than 1 day.*

*I don't have all operator's programs reviewed as of yet, but I will contact each of you when I have had a chance to go through your OQ plan and I will share what I have found to that point. This will help all of us to get this done in a timely fashion. Thank you.*

*Regards,*

Aaron A Morman  
State of North Dakota  
Public Service Commission  
ND Gas Pipeline Safety  
Program Manager/Inspector  
Cell phone: 701-220-5779  
Fax: 701-328-2410  
aarmorman@nd.gov

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12/2/2015

**City of Granville**

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**From:** "City of Granville" <granville@srt.com>  
**Date:** Tuesday, April 07, 2015 9:07 AM  
**To:** "Morman, Aaron A." <aarmorman@nd.gov>  
**Subject:** Re: Possible get together

Aaron,

This sounds fine. We will make time tomorrow for you to visit. Anytime works, I will just work around it with my daycare. Let us know what time we should expect you. You can call the office number or my cell number 701-626-2297.

Thank You,  
Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369

-----Original Message-----

**From:** Morman, Aaron A.  
**Sent:** Tuesday, April 07, 2015 8:15 AM  
**To:** Granville - City  
**Subject:** Possible get together

Good day.

I'm checking to see if you would have time tomorrow, Wednesday, April 8, to get together to look at records or any of your plans. I realize this is short notice but I just happen to be in Bismarck for the next two days and thought I would check with you to see if anything would work out. If you need more time to get ready, I totally understand and will plan for later. Don't feel you need to do this if it's too short of a notice. Let me know either way.

Aaron Morman

Sent from my iPhone

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12/2/2015

**City of Granville**

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**From:** "City of Granville" <granville@srt.com>  
**Date:** Tuesday, April 28, 2015 12:20 PM  
**To:** <curt.olson@mdu.com>  
**Subject:** Fw: MDU Operator Qualifications

Curt,

The City of Granville had MDU assist with a repair to a leak on our Main last March 2014. At the point of the repair, I believe with the heat of the situation the City may have not required to see your Operator Qualifications as needed. The PSC State inspector is now requesting that we provide proof of this. MDU was the only contactor that actually repaired the pipe. Iron Horse provided a Hydro-Vac. If you could assist me with this requirement at this time it would be greatly appreciated. Let me know if you have any questions or need any further information regarding the incident.

Thank You,  
Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369

**From:** Morman, Aaron A.  
**Sent:** Monday, April 20, 2015 1:18 PM  
**To:** City of Granville  
**Subject:** RE: Attached Image

Are these the pictures of the repair? It looks like it may be. There should be a picture of where the piping came apart.

---

**From:** City of Granville [mailto:granville@srt.com]  
**Sent:** Monday, April 20, 2015 12:21 PM  
**To:** Morman, Aaron A.  
**Subject:** Re: Attached Image

Aaron,

I believe these are the pictures of the leak. I will work on the OQ files for the companies that fixed it. MDU was one of them.

Thanks  
Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741

12/2/2015

701-728-6369

**From:** Morman, Aaron A.  
**Sent:** Monday, April 20, 2015 9:04 AM  
**To:** City of Granville  
**Subject:** RE: Attached Image

Thank you. Can you send me a picture of the fusion joint where the leak happened in 2014? Also send me the qualifications of the person who repaired the leak.  
Thank you.

Regards,

*Aaron A Morman  
North Dakota PSC  
Gas Pipeline Safety  
Program Manager/Inspector  
Cell phone: 701-220-5779  
Fax: 701-328-2410  
[aarmorman@nd.gov](mailto:aarmorman@nd.gov)*

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**From:** City of Granville [<mailto:granville@srt.com>]  
**Sent:** Sunday, April 19, 2015 7:27 PM  
**To:** Morman, Aaron A.  
**Subject:** Fw: Attached Image

Aaron,

Here is the 2014 Gas Distribution Annual report you were needing for your records.

Thank You,

Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369

**From:** [granville@srt.com](mailto:granville@srt.com)  
**Sent:** Friday, April 17, 2015 1:31 PM  
**To:** Granville  
**Subject:** Attached Image

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12/2/2015

**City of Granville**

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**From:** "City of Granville" <granville@srt.com>  
**Date:** Monday, June 01, 2015 1:09 PM  
**To:** "Morman, Aaron A." <aarmorman@nd.gov>  
**Subject:** Re: OQ Audit results

Aaron,

Abandonment is not a solid option at this point for the City. The members have expressed that whatever needs to get done to be in compliance just needs to be completed. That is why I am trying my best to work on things as needed.

Thank You,  
Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369

**From:** Morman, Aaron A.  
**Sent:** Friday, May 29, 2015 1:19 PM  
**To:** City of Granville  
**Subject:** RE: OQ Audit results

I am finally having some time to review some of the items you have sent me and I'll let you know when I get through them all. Has the city made any other decisions as far as the future of the system? You had expressed that an abandonment of the system could possibly happen.

---

**From:** City of Granville [mailto:granville@srt.com]  
**Sent:** Wednesday, May 20, 2015 11:04 AM  
**To:** Morman, Aaron A.  
**Subject:** Re: OQ Audit results

Aaron,

I wanted to express some of my excitement. I believe I have created and updated the required Exhibit A Task List according to our Audit result requirements. Please let me know if you see anything that does not look accurate.

Thank You!  
Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369

12/2/2015

**From:** Morman, Aaron A.  
**Sent:** Monday, April 13, 2015 3:13 PM  
**To:** granville@srt.com  
**Subject:** OQ Audit results

*Anita, Paul.*

*Thank you for your time in regards to the audit we performed on City of Granville's Operator Qualifications Program.*

*I am attaching the results of the Operator Qualifications Program audit we did April 7, 8, 9, 2015. If you have any questions, feel free to call me.*

*Regards.*

*Aaron A Morman  
North Dakota PSC  
Gas Pipeline Safety  
Program Manager/Inspector  
Cell phone: 701-220-5779  
Fax: 701-328-2410  
[aarmorman@nd.gov](mailto:aarmorman@nd.gov)*

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12/2/2015

**City of Granville**

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**From:** "City of Granville" <granville@srt.com>  
**Date:** Friday, June 05, 2015 11:13 AM  
**To:** "Aaron A. Morman" <aarmorman@nd.gov>  
**Attach:** OQ Plan.doc; Blank OQ list.xlsx; P BLODGETTS OQ TASK LIST.xlsx; A TRANAS OQ TASK LIST.xlsx  
**Subject:** Granville PSC audit updates

Aaron,

I will be on vacation next week but I wanted to report on all of the updates I have completed as result of our April visit. I am enclosing the written OQ procedure, the blank OQ task sheet, and a copy of Paul and my OQ task sheets. All I seem to have left to complete is the 4 part task definition in which I will be working on when I get back in order to meet our July 1st deadline. I cannot guarantee it will be completed on July 1st however I will confirm written extension request if needed.

At the June 4th regular meeting the Operator Qualifications program was discussed and I gave progress report to the members of the updates in which I have been working on. Here is the response I received:

The auditor showed progress of required updates needed to the City LP Operator Qualification Program as a result of the recent PSC audit. Mr. Jaeger moved to change the Plant Operation Training Certification Interval from every year to every 3 years with notation being made that the City Operator will attend every year if availability permits. Motion 2<sup>nd</sup> by Ms. Lundy. Motion passed unanimously. Mr. Jaeger moved to eliminate Emergency Response Personnel from the Operator Qualifications program as first responders at an emergency should only be at the scene to secure the area and have no authority to operate the gas distribution system. Motion 2<sup>nd</sup> by Ms. Lundy. Motion passed unanimously.

Let me know if these items are satisfactory.

Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369

12/2/2015

**City of Granville**

---

**From:** "City of Granville" <granville@srt.com>  
**Date:** Wednesday, August 05, 2015 12:11 PM  
**To:** "Morman, Aaron A." <aarmorman@nd.gov>  
**Subject:** Re: Possible meeting

Aaron,

I will be here. I seen you were gone out of state for training but I have been looking forward to hearing from you.

Thanks and we will see you in the morning then.

Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369

**From:** Morman, Aaron A.  
**Sent:** Wednesday, August 05, 2015 12:03 PM  
**To:** granville@srt.com  
**Cc:** Reamann, Craig R.  
**Subject:** Possible meeting

Anita.

*Would you be available tomorrow morning to go over some of the OQ questions you may have? Craig Reamann and I could be there tomorrow morning to do so.*  
Thanks.

Aaron A Morman  
North Dakota PSC  
Gas Pipeline Safety  
Program Manager/Inspector  
Cell phone: 701-220-5779  
Fax: 701-328-2410  
aarmorman@nd.gov

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12/2/2015

**City of Granville**

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**From:** "City of Granville" <granville@srt.com>  
**Date:** Tuesday, August 25, 2015 1:20 PM  
**To:** "Morman, Aaron A." <aarmorman@nd.gov>; "Reamann, Craig R." <creamann@nd.gov>  
**Subject:** Re: Upcoming inspection

Whatever works for me.

Thank You,  
Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369

-----Original Message-----

**From:** Morman, Aaron A.  
**Sent:** Monday, August 24, 2015 11:53 AM  
**To:** Granville - City ; Reamann, Craig R.  
**Subject:** Upcoming inspection

I would like to know if moving the planned inspection from Tuesday afternoon to Wednesday morning would work for both of you as I will only be returning on Monday afternoon from the national NAPSR meeting in Arizona? I would ravel from home to stay in Minot on Tuesday afternoon and drive over Wednesday morning.

Let me know.

Thanks.

Aaron Morman

Sent from my iPhone

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12/2/2015

**PAUL BLODGETT'S OPERATOR QUALIFICATION TASK LIST**

I. COMMON (all employees)	Date Attnd	Cert Date	Date Attnd	Cert Date	Date Attnd	Cert Date	Recert Yrs	Company	Course
1 Vaporization Plant Operations	5/11/2015	6/16/2015					5	PERC/CTEP	Vapor Dist Systems
1A Operating and Maintaining Direct fired LP Gas Vaporizers							1	MTI/MDU	Propane Safety Training
1B Emergency Shutdown of Supply Tank	11/12/2014	6/16/2015					3	NPGA/CTEP	Basic Plant Operations
2 Characteristics and Hazards of Propane	8/25/2014	6/16/2015					5	NPGA/CTEP	Basic Practices and principles
3 Potential Ignition Sources: Indoor and Outdoor	8/25/2014	6/16/2015					5	NPGA/CTEP	Basic Practices and principles
4 Recognizing Emergency Conditions	8/25/2014	6/16/2015					5	NPGA/CTEP	Basic Practices and principles
5 Recognizing and Reporting Propane Gas Leaks	8/25/2014	6/16/2015					5	NPGA/CTEP	Basic Practices and principles
II. FIELD SAFETY	Date Attnd	Cert Date	Date Attnd	Cert Date	Date Attnd	Cert Date	Recert Yrs	Company	Course
6 Personal Protective Equipment	8/25/2014	6/16/2015					5	NPGA/CTEP	Basic Practices and principles
7 Proper Fire-fighting Techniques	8/25/2014	6/16/2015					5	NPGA/CTEP	Basic Practices and principles
8 Controlling the Accidental Release of Gas							5	MTI/MDU	Propane Safety Training
9 Recognizing Unsafe Meter Sets	9/24/2015	12/14/2015					5	MEA/EnergyU	LP-0701
III. LEAK SURVEY AND RESPONSE	Date Attnd	Cert Date	Date Attnd	Cert Date	Date Attnd	Cert Date	Recert Yrs	Company	Course
10 Leak Classification	9/25/2015	12/14/2015					3	MEA/EnergyU	KNT LP-1202
11 Operating the Combustible Gas Indicator	9/25/2015	12/14/2015					3	MEA/EnergyU	KNT LP-1202
12 Emergency Response and Restoration of Service	8/28/2014	6/16/2015					3	PERC/CTEP	Office Personal Training
13 Leak Surveys and Patrols	11/18/2015	11/19/2015					5	NPGA/CTEP	Gas Check Seminar

IV. CUSTOMER SERVICE	Date Attnd	Cert Date	Date Attnd	Cert Date	Date Attnd	Cert Date	Recert Yrs	Company	Course
14 Customer Leak Investigation	5/11/2015	6/16/2015					5	PERC/CTEP	Vapor Dist Systems
15 Pressure Checks to Establish Gas Service	5/11/2015	6/16/2015					5	PERC/CTEP	Vapor Dist Systems
16 Establishing and Disconnecting Gas	5/11/2015	6/16/2015					5	PERC/CTEP	Vapor Dist Systems
V CONSTRUCTION and MAINTENANCE	Date Attnd	Cert Date	Date Attnd	Cert Date	Date Attnd	Cert Date	Recert Yrs	Company	Course
17 Atmospheric Corrosion							5	NACE	CP-1
18 Odorization	5/11/2015	6/16/2015					5	PERC/CTEP	Vapor Dist Systems
19 Bar Hole Testing and Purging	5/11/2015	6/16/2015					5	PERC/CTEP	Vapor Dist Systems
20 Locating and Marking Facilities	12/8/2015	12/14/2015					5	MEA/EnergyU	ETNG-LP1803, KNT-LP0801
21 Excavation and Shoring Safety	N/A	N/A	N/A	N/A	N/A	N/A	5	N/A	N/A
22 Plastic Pipe Fusion (Permasert Couplings)							5	Poly and Perfection	FEI/Dan Erbes
23 Plastic Pipe Repair (Permasert Couplings)							5	Poly and Perfection	FEI/Dan Erbes
24 Fusion Qualification (Permasert Couplings)							1	Poly and Perfection	FEI/Dan Erbes
25 Joining Steel Pipe	5/11/2015	6/16/2015					5	PERC/CTEP	Vapor Dist Systems
26 Welding Qualification	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
27 Steel Repair Fittings	5/11/2015	6/16/2015					5	PERC/CTEP	Vapor Dist Systems
28 Maintaining Steel Mains	12/8/2015	12/14/2015					5	MEA/EnergyU	KNT-LP 1421
29 Pressure Testing Steel and Plastic Pipelines	5/11/2015	6/16/2015					5	PERC/CTEP	Vapor Dist Systems
30 Purging Safety	5/11/2015	6/16/2015					5	PERC/CTEP	Vapor Dist Systems
31 Cathodic Protection	8/28/2014	6/16/2015					5	PERC/CTEP/NACE	Basic Practices and principles
32 Tapping/Stopping: 1.25" through 4" Pipe (Permasert)							5	Poly and Perfection	FEI/Dan Erbes

**EXHIBIT**  
**3**

33	Installing Mains							5		
34	Installing Service	5/11/2015	6/16/2015					5	PERC/CTEP	Vapor Dist Systems
35	Reinforcing Steel and Plastic Mains N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
36	Abandoning Facilities							5	MEA/EnergyU	KTN LP-1401

V	CONSTRUCTION and MAINTENANCE	Date Attnd	Cert Date	Date Attnd	Cert Date	Date Attnd	Cert Date	Recert Yrs	Company	Course
37	Inspecting and Maintaining Valves	8/25/2014	6/16/2015					5	PERC/CTEP	Basic Practices and principles
38	Valve Inspection & Maintenance	12/9/2015	12/14/2015					5	MEA/EnergyU	KNT-LP 1427
39	Inspecting Pressure Regulating and Limiting Stations	12/9/2015	12/14/2015					5	MEA/EnergyU	ETNG-LP1803, KNT-LP1803
40	System Upgrading (N/A)	N/A	N/A	N/A	N/A	N/A	N/A	5	N/A	N/A
41	Job Site Protection	5/11/2015	6/16/2015					5	PERC/CTEP	Vapor Dist Systems
42	Backhoe Safety	5/11/2015	6/16/2015					5	PERC/CTEP	Vapor Dist Systems

Certification Completion

Company ID	Employee ID	Last Name	First Name	Course Name	Certificate	Course Start	Course End	Comments	Pass/Fail	Grade or Description	Comments
COGV		Biodgett	Paul	LP-1301 e-TNG Leak and Strength Test Service Lines, Mains, Transmission Lines	MEA11310	10012/8/2015	12/8/2018	Yes		TNG LP-1301 Leak & Strength Test - Service Lines, Mains, & Transmission Lines	491102ef-51N-4137-b6b4-5994431b6efc X
[REDACTED]											
COGV		Biodgett	Paul	LP-0801 e-TNG Locating Pipelines	MEA1591	10012/8/2015	12/8/2018	Yes		TNG LP-0801 Locating Pipelines	041e23bd-1aeb-4bb8-8201-152234620606 X
[REDACTED]											
COGV		Biodgett	Paul	LP-1005 KNT Mechanical Joints	MEA1565	8512/8/2015	12/8/2018	Yes		KNT LP-1005 Mechanical Joints	9678ec77-d262-44ea-952d-16392474086f X
[REDACTED]											
COGV		Biodgett	Paul		MEA1570			No		KNT LP-1401 Abandonment or Inactivation of Facilities	ed0ca294-7653-4060-bbb9-6403f58e24b4 X
[REDACTED]											
COGV		Biodgett	Paul	LP-0702 e-TNG Customer Regulating, Limiting, and Relief Devices	MEA1590	1009/24/2015	9/24/2018	Yes		TNG LP-0702 Customer 3572ccca-Pressure Reg., Limiting, 5213-4438- and Relief Devices - Op 9c2f-c0a3f9209fca X	
[REDACTED]											
COGV		Biodgett	Paul	LP-0701 KNT Locate, Install, Protect Customer Meters/Regulators	MEA1554	1009/24/2015	9/24/2018	Yes		KNT LP-0701 Locating, 5d6025d2-Installing, and 8813-43e7-88b5-Protecting Customer Meters and Regulators b2507806017 X	
[REDACTED]											
COGV		Biodgett	Paul	LP-0801 KNT Locating Pipelines	MEA1561	8412/8/2015	12/8/2018	Yes		KNT LP-0801 Locating 69e0d5bc-01a3-48ef-ab30-59d317a8fc99 X	
[REDACTED]											
COGV		Biodgett	Paul	LP-1421 KNT Installation of Steel Pipe; Repair of Imperfections and Damage	MEA1574	10012/8/2015	12/8/2018	Yes		KNT LP-1421 Installation of Steel Pipe - Repair of Imperfections or 420660a5-6911-4516-b922-0777513e2a6 X	
[REDACTED]											
COGV		Biodgett	Paul	LP-0402 KNT Coating Maintenance	MEA1549	9412/8/2015	12/8/2018	Yes		KNT LP-0402 Coating 12741730-6532-48b7-98a8-c234660603ba X	
[REDACTED]											
COGV		Biodgett	Paul	LP-0701 e-TNG Locating, Installing, and Protecting Customer Meters and Regulators	MEA1589	1009/24/2015	9/24/2018	Yes		TNG LP-0701 Locating, c796f964-Installing, and 2774-414a-9466-Protecting Customer Meters and Regulators ed1d3bc01197 X	
[REDACTED]											

Did not certify

Did not certify

Company ID	Employee ID	First Name	Last Name	Course Name	Certificate	Course Start	Course End	Expiration Date	Comments, If Any	Category/Description	Contract ID
COGV		Biodgen	Paul	LP-1202 o-TNG Outside Leakage Investigation	MBA1603	1009/25/2015	9/25/2018	Yes		TNG LP-1202 Outside Gas Leakage Investigation, Pipemapping, and Grading	1c200b41- 4d7b-480e- 933b- 75e7eef63d2f
[REDACTED]											
COGV		Biodgen	Paul	LP-1427 o-TNG Valve Inspection and Maintenance	MBA1612	10012/9/2015	12/9/2018	Yes		TNG LP-1427 Valve Maintenance	6059c7de- 372f-491e- 9e66- 51a78e90d4b

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-1803.01 Pressure Regulating, Limiting, and Relief Device - O&M

Work Location: Granville Propane Plant - GRAN

Evaluator: Kowalczyk, Peter - K0840

Evaluation Method: On-the-job

Duration: 35 minutes

Qualified?: Yes

Step #	Activity	Sat	Comments
1	<p>Identify pressure regulating, limiting, and relief device requirements</p> <p>The individual will be able to identify pressure regulating, limiting and relief device requirements, i.e.:</p> <p>A. Maximum allowable operating pressure</p> <ol style="list-style-type: none"><li>1. Steel or plastic pipelines - A segment of steel or plastic pipeline may not be operated at a pressure that exceeds the highest pressure established for the segment</li><li>2. High-pressure distribution systems - A segment of a high-pressure distribution system may not be operated at a pressure that exceeds the highest pressure established for the segment</li><li>3. Low-pressure distribution systems - A low-pressure distribution system may not be operated at a pressure:<ol style="list-style-type: none"><li>a. High enough to make unsafe the operation of any connected and properly adjusted low-pressure gas burning equipment</li><li>b. Lower than the minimum pressure at which the safe and continuing operation of any connected and properly adjusted low-pressure gas burning equipment can be assured</li></ol></li></ol> <p>B. Installation of pressure relief and limiting devices</p> <ol style="list-style-type: none"><li>1. A segment may not be operated, unless over-pressure protective devices are installed on the segment in a manner that will prevent the maximum allowable operating pressure from being exceeded</li><li>2. Installed so that it can be readily operated to determine if:<ol style="list-style-type: none"><li>a. The valve is operable</li><li>b. Can be tested to determine the pressure at which it will operate</li><li>c. Can be tested for leakage when in the closed position</li></ol></li><li>3. Installed so that the size of the openings, pipe, and fittings located between the system to be protected and the pressure relieving device, and the size of the vent line, are adequate to prevent:<ol style="list-style-type: none"><li>a. Hammering of the valve</li><li>b. Impairment of relief capacity</li></ol></li></ol> <p>C. Required capacity of pressure relieving and limiting stations</p> <ol style="list-style-type: none"><li>1. Each pressure relief station or pressure limiting station or group of those stations installed to protect a pipeline must have enough capacity</li><li>2. Must be set to operate, to insure the following:<ol style="list-style-type: none"><li>a. In a low-pressure distribution system, the pressure may not cause the unsafe operation of any connected and properly adjusted gas utilization equipment</li><li>b. In pipelines other than a low pressure distribution system: set so the pressure may not exceed the maximum allowable operating pressure plus the specified tolerance</li></ol></li></ol> <p>D. Pipe-type or bottle-type holder(s)</p> <ol style="list-style-type: none"><li>1. Inspect pressure limiting equipment to determine that it is:<ol style="list-style-type: none"><li>a. In safe operating condition</li><li>b. Has adequate capacity</li></ol></li></ol> <p>E. Pressure limiting and regulating stations: Inspection and testing</p> <ol style="list-style-type: none"><li>1. Each pressure limiting station, relief device (except rupture discs), and</li></ol>		

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-1803.01 Pressure Regulating, Limiting, and Relief Device - O&M

Step #	Activity	Sat	Comments
	<p>pressure regulating station and its equipment must be inspected and tested to determine that it is--</p> <ol style="list-style-type: none"> <li>a. In good mechanical condition</li> <li>b. Adequate from the standpoint of capacity and reliability of operation for the service in which it is employed</li> <li>c. Set to function at the correct pressure</li> <li>d. Properly installed and protected from dirt, liquids, or other conditions that might prevent proper operation</li> </ol> <p>2. Pressure relief devices (except rupture discs) must be tested in place</p> <ol style="list-style-type: none"> <li>a. To determine that they have enough capacity to limit the pressure on the facilities to which they are connected to the desired maximum pressure</li> <li>b. If the relieving device is of insufficient capacity, a new or additional device must be installed to provide the additional capacity required</li> </ol> <p>F. Pressure limiting and regulating stations: Telemetering or recording gauges - If there are indications of abnormally high- or low-pressure:</p> <ol style="list-style-type: none"> <li>1. The regulator and the auxiliary equipment must be inspected</li> <li>2. The necessary measures employed to correct any unsatisfactory operating conditions</li> </ol> <p>G. Compressor stations: Inspection and testing of relief devices.</p> <ol style="list-style-type: none"> <li>1. Except for rupture discs, each pressure relieving device in a compressor station must be inspected, tested and operated periodically to determine that it is               <ol style="list-style-type: none"> <li>a. In good mechanical condition</li> <li>b. Adequate from the standpoint of capacity and reliability of operation for the service in which it is employed</li> <li>c. Set to function at the correct pressure</li> <li>d. Properly installed and protected from dirt, liquids, or other conditions that might prevent proper operation</li> <li>e. Opens at the correct set pressure</li> </ol> </li> </ol>		
2	<p>Visually inspect pressure regulating, limiting, and relief devices</p> <p>Abnormal Operating Conditions</p> <ol style="list-style-type: none"> <li>A. Atmospheric corrosion</li> <li>B. Hammering</li> <li>C. Set point outside specified range</li> <li>D. Operation unreliable</li> <li>E. Abnormally high operating pressure</li> <li>F. Abnormally low operating pressure</li> <li>G. MAOP exceeded</li> <li>H. Improperly installed</li> <li>I. Dirt, liquids, or other conditions that might impair operation</li> <li>J. Gas leakage</li> <li>K. Damage to piping and equipment</li> </ol> <p>The individual will be able to visually inspect pressure regulating, limiting, and relief devices and equipment, in accordance with the requirements identified during Step 1</p>	Yes	
3	<p>If required maintain valves in accordance with Covered Task Summary 1427: Valve Maintenance</p> <p>Individuals who perform valve maintenance shall complete associated evaluations in accordance with Performance Evaluation Criteria Guide 1427:</p>		

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-1803.01 Pressure Regulating, Limiting, and Relief Device - O&M

Step #	Activity	Sat	Comments
	Valve Maintenance		
4	If required, verify capacity of pressure relieving and limiting stations	Yes	
	Abnormal Operating Conditions A. Insufficient capacity		
	The individual will be able to verify the capacity of pressure limiting stations, relief devices, and pressure regulating station and its equipment, i.e.:		
	A. Identify locations to check for capacity (inlet, outlet, intermediate stages, etc.)		
	B. Check capacity in accordance with manufacturer's instructions		
	C. Compare actual capacity to specified capacity		
	D. If required, install additional capacity		
5	Test pressure regulating and limiting devices	Yes	
	Abnormal Operating Conditions A. Equipment mechanical condition deteriorated B. Equipment in unsafe operating condition C. Set point outside specified range D. Operation unreliability E. Does not function at specified pressure F. Abnormally high operating pressure G. Abnormally low operating pressure H. MAOP exceeded I. Improperly installed		
	The individual will be able to test pressure regulating and limiting devices in accordance with the requirements established during Step 1		
6	Test relief devices	Yes	
	Abnormal Operating Conditions A. Equipment mechanical condition deteriorated B. Equipment in unsafe operating condition C. Set point outside specified range D. Operation unreliability E. Does not function at specified pressure F. Abnormally high operating pressure G. Abnormally low operating pressure H. MAOP exceeded I. Improperly installed		
	The individual will be able to test relief devices in accordance with the requirements identified during Step 1		
7	Maintain pressure regulating, limiting, and relief devices		
	Abnormal Operating Conditions A. Atmospheric corrosion B. Equipment mechanical condition deteriorated C. Equipment in unsafe operating condition D. Hammering E. Relief capacity impaired		

# Performance Evaluation

Yes

2327 - Blodgett, Paul

PEF192-1803.01 Pressure Regulating, Limiting, and Relief Device - O&M

Step #	Activity	Sat	Comments
	<ul style="list-style-type: none"> <li>F. Inadequate capacity</li> <li>G. Set point outside specified range</li> <li>H. Inability to obtain set point</li> <li>I. Operation unreliability</li> <li>J. Inoperable components</li> <li>K. Damaged or deteriorated components</li> <li>L. Does not function at specified pressure</li> <li>M. Abnormally high operating pressure</li> <li>N. Abnormally low operating pressure</li> <li>O. MAOP exceeded</li> <li>P. Improperly installed</li> <li>Q. Dirt, liquids, or other conditions that might impair operation</li> <li>R. Gas leakage</li> <li>S. Damage to piping and equipment</li> </ul> <p>The individual will be able to:</p> <ul style="list-style-type: none"> <li>A. Isolate or remove device from service</li> <li>B. Diagnose and troubleshoot device</li> <li>C. Perform internal inspection of device</li> <li>D. Perform required maintenance on device in accordance with manufacturer's instructions</li> <li>E. Return device to service</li> </ul>		
8	<p>Check and adjust operating pressure set point(s) of pressure regulating, limiting, and relief devices</p> <p><b>Abnormal Operating Conditions</b></p> <ul style="list-style-type: none"> <li>A. Abnormally high operating pressure</li> <li>B. Abnormally low operating pressures,</li> <li>C. Oscillating, fluctuating, pulsating pressure,</li> <li>D. Operating pressure set outside allowable range</li> <li>E. MAOP exceeded</li> <li>F. Pressure adjustment cannot be made</li> </ul> <p>The individual will be able to:</p> <ul style="list-style-type: none"> <li>A. Identify locations to check operating pressure set point(s) (inlet, outlet, intermediate stages, etc.)</li> <li>B. Install pressure gauges or utilize existing permanent gauges, recording charts or other telemetry/SCADA equipment</li> <li>C. Compare actual operating pressure set point(s) to specified pressure range set point(s)</li> <li>D. Locate and operate pressure adjusting components</li> <li>E. If required, increase operating pressure in increments, gradually, at a rate that can be controlled</li> <li>F. Observe results of adjustments and compare to specified range pressure range set point(s)</li> <li>G. Continue adjustments as necessary</li> <li>H. Adjust operating pressure set point(s) to be within specified pressure set point(s) range</li> </ul>	Yes	
9	<p>Recognize and react to Abnormal Operating Conditions</p> <p>Category: Cathodic Protection/Corrosion</p> <ul style="list-style-type: none"> <li>A. Atmospheric corrosion</li> </ul>		

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-1803.01 Pressure Regulating, Limiting, and Relief Device - O&M

Step #	Activity	Sat	Comments
	<p>Category: Component Malfunction</p> <ul style="list-style-type: none"> <li>A. Hammering</li> <li>B. Operation unreliable</li> <li>C. Set point outside specified range</li> <li>D. Does not function at specified pressure</li> <li>E. Inability to obtain set point</li> <li>F. Inoperable components</li> <li>G. Pressure adjustment cannot be made</li> </ul> <p>Category: Contamination, Damage, Deterioration or Material Defect</p> <ul style="list-style-type: none"> <li>A. Damage to piping and equipment</li> <li>B. Dirt, liquids, or other conditions that might impair operation</li> <li>C. Equipment in unsafe operation condition</li> <li>D. Equipment mechanical condition deteriorated</li> <li>E. Damaged or deteriorated components</li> </ul> <p>Category: Gas Leak/Unexpected Source of Gas</p> <ul style="list-style-type: none"> <li>A. Gas leakage</li> </ul> <p>Category: Noncompliance with Procedures, Standards &amp; Other Requirements</p> <ul style="list-style-type: none"> <li>A. Improperly installed</li> <li>B. Operating pressure set outside allowable range</li> </ul> <p>Category: Pressure Problem</p> <ul style="list-style-type: none"> <li>A. Abnormally high operating pressure</li> <li>B. Abnormally low operating pressure</li> <li>C. MAOP exceeded</li> <li>D. Insufficient capacity</li> <li>E. Inadequate capacity</li> <li>F. Relief capacity impaired</li> <li>G. Oscillating, fluctuating, pulsation pressure</li> </ul> <p>Category: Cathodic Protection/Corrosion</p> <ul style="list-style-type: none"> <li>A. Atmospheric corrosion</li> </ul> <p>The individual will be able to:</p> <ul style="list-style-type: none"> <li>A. Recognize Abnormal Operating Condition(s) that may be encountered while performing the task</li> <li>B. React to the Abnormal Operating Condition(s) by:                             <ul style="list-style-type: none"> <li>1. Initiating remedial action, or</li> <li>2. Reporting for analysis to determine:                                     <ul style="list-style-type: none"> <li>a. If remedial action is required, and</li> <li>b. Remedial action to correct the Abnormal Operating Condition(s)</li> </ul> </li> </ul> </li> </ul>		
10	<p>If required, complete documentation</p> <p>If an individual successfully completes the steps for the task they are being evaluated for they are qualified for the task. Failure to successfully complete this step does not impact the individual's qualification for the task.</p> <p>The individual will be able to:</p> <ul style="list-style-type: none"> <li>A. Identify documentation (records) to be completed.</li> <li>B. Define the required information that is to be recorded</li> <li>C. Complete the records (paper or computer)</li> <li>D. Submit the records for retention</li> </ul>	Yes	

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-1803.01 Pressure Regulating, Limiting, and Relief Device - O&M

Candidate: 

Evaluator: 

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-1301.01 Leak/Strength Test - Svc/Main/Trans. Line: Gas pressure <=100 psi

Work Location: Granville City Shop - GRAN

Evaluator: Kowalczyk, Peter - K0840

Evaluation Method: Oral

Duration: 20 minutes

Qualified?: Yes

Step #	Activity	Sat	Comments															
1	<p>Identify strength and leak test requirements and method</p> <p>The individual will be able to identify strength and leak test requirements and methods:</p> <p>A. General requirements</p> <p>1. A new segment of pipeline may not be placed in service, and a relocated or replaced segment returned to service until:</p> <p>a. The segment is tested to substantiate the maximum allowable operating pressure; and</p> <p>b. Each potentially hazardous leak has been located and eliminated.</p> <p>c. The test medium must be liquid, air, natural gas, or inert gas that is --</p> <ul style="list-style-type: none"> <li>* Compatible with the material of which the pipeline is constructed;</li> <li>* Relatively free of sedimentary materials; and</li> <li>* Except for natural gas, nonflammable.</li> </ul> <p>d. If air, natural gas, or inert gas is used as the test medium, the following maximum hoop stress limitations apply:</p> <table border="1"> <thead> <tr> <th>Class location</th> <th>Natural gas</th> <th>Air or inert gas</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>80</td> <td>80</td> </tr> <tr> <td>2</td> <td>30</td> <td>75</td> </tr> <tr> <td>3</td> <td>30</td> <td>50</td> </tr> <tr> <td>4</td> <td>30</td> <td>40</td> </tr> </tbody> </table> <p>e. Each joint used to tie in a test segment of pipeline is excepted from the specific test requirements, but each non-welded joint must be leak tested at not less than its operating pressure.</p> <p>B. Test requirements for pipelines to operate below 100 p.s.i. (689 kPa) gage.</p> <p>1. Except for service lines and plastic pipelines, each segment of a pipeline that is to be operated below 100 p.s.i. (689 kPa) gage must be leak tested in accordance with the following:</p> <p>a. The test procedure used must ensure discovery of all potentially hazardous leaks in the segment being tested.</p> <p>b. Each main that is to be operated at less than 1 p.s.i. (6.9 kPa) gage must be tested to at least 10 p.s.i. (69 kPa) gage and each main to be operated at or above 1 p.s.i. (6.9 kPa) gage must be tested to at least 90 p.s.i. (621 kPa) gage.</p> <p>C. Test requirements for service lines.</p> <p>1. Each segment of a service line (other than plastic) must be leak tested before being placed in service. If feasible, the service line connection to the main must be included in the test; if not feasible, it must be given a leakage test at the operating pressure when placed in service.</p> <p>2. Each segment of a service line (other than plastic) intended to be operated at a pressure of at least 1 p.s.i.g. but not more than 40 p.s.i.g. must be given a leak test at a pressure of not less than 50 p.s.i.g.</p> <p>3. Each segment of a service line (other than plastic) intended to be operated at pressures of more than 40 p.s.i.g. must be tested to at least 90 p.s.i.g., except that each segment of a steel service line stressed to 20 percent or more of SMYS must be tested in accordance with item 3 above.</p>	Class location	Natural gas	Air or inert gas	1	80	80	2	30	75	3	30	50	4	30	40		
Class location	Natural gas	Air or inert gas																
1	80	80																
2	30	75																
3	30	50																
4	30	40																

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-1301.01 Leak/Strength Test - Svc/Main/Trans. Line: Gas pressure <=100 psi

Step #	Activity	Sat	Comments
	<p>D. Test requirements for plastic pipelines.</p> <p>1. Each segment of a plastic pipeline must be tested to insure discovery of all potentially hazardous leaks in the segment being tested.</p> <p>E. Transmission lines: Testing of repairs.</p> <p>1. Testing of replacement pipe. If a segment of transmission line is repaired by cutting out the damaged portion of the pipe as a cylinder, the replacement pipe must be tested to the pressure required for a new line installed in the same location. This test may be made on the pipe before it is installed.</p> <p>F. Test requirements for reinstating service lines.</p> <p>1. Except as provided in paragraph (b) of this item, each disconnected service line must be tested in the same manner as a new service line, before being reinstated.</p> <p>2. Each service line temporarily disconnected from the main must be tested from the point of disconnection to the service line valve in the same manner as a new service line, before reconnecting. However, if provisions are made to maintain continuous service, such as by installation of a bypass, any part of the original service line used to maintain continuous service need not be tested.</p> <p>G. Methods</p> <p>1. Identify purpose of the strength and leak test (pre-tested pipe, component, fabricated unit, post installation test)</p> <p>2. Identify or determine a test method (hydrostatic, air, inert, or natural gas) consistent with the purpose for the test and limitations on the test medium:</p> <p>a. Type of facility (pipe, replacement component, compressor station, regulator station, and measuring station)</p> <p>b. Fabricated units and short sections of pipe, for which a post installation test is impractical</p> <p>c. Location of the facility</p> <p>d. Test pressure</p> <p>e. Duration of the test</p>		
2	<p>If required, isolate the segment, component, or unit by installing caps, blind flanges, or other devices in accordance with: Covered Task Summary 1422: Segment Repair, Replacement, Etc. (Service Lines, Mains and Transmission Lines)</p> <p>Individuals who perform isolation of segment, component, or unit by installing caps, blind flanges, or other devices shall complete associated evaluations in accordance with Covered Task Summary 1422: Segment Repair, Replacement, Etc. (Service Lines, Mains and Transmission Lines)</p>	Yes	
3	<p>Prepare for test</p> <p>The individual will be able to:</p> <p>A. Install and maintain accurate test instruments at points that will provide required test data</p> <p>B. Setup pressure inducing equipment and make connections to introduce test medium into the facility</p>	Yes	
4	<p>Initiate the test</p> <p>Abnormal Operating Conditions</p> <p>A. Pipe over pressured</p>		

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-1301.01 Leak/Strength Test - Svc/Main/Trans. Line: Gas pressure  $\leq$ 100 psi  
Yes

Step #	Activity	Sat	Comments
	B. Test procedures not followed		
	<p>The individual will be able to:</p> <p>A. Introduce the test medium into the facility</p> <p>B. Perform pressure increases:</p> <ol style="list-style-type: none"> <li>1. Hold for specified holding period</li> <li>2. If required, in specified increments</li> <li>3. Gradually</li> <li>4. At a rate that can be controlled</li> <li>5. So the test pressure is achieved but not exceeded</li> <li>6. Record test data as required</li> </ol>		
5	Check the segment, component or unit for leaks	Yes	
	<p>Abnormal Operating Conditions</p> <p>A. Leak detected</p> <p>The individual will be able to:</p> <p>A. Hold pressure constant after any incremental pressure increase and at the final test pressure,</p> <p>B. Locate leaks visually, by sound, or by smell, utilizing:</p> <ol style="list-style-type: none"> <li>1. Gas detector equipment</li> <li>2. Pressure drop</li> <li>3. Bubble leakage test</li> <li>4. Ultrasonic leakage test</li> <li>5. Etc.</li> </ol> <p>C. Verify that multiple leaks have been detected</p>		
6	If required, perform a leakage survey in accordance with Covered Task Summary 1201: Leakage Survey: Distribution and Transmission	Yes	
	<p>Individuals who perform leakage survey shall complete associated evaluations in accordance with Performance Evaluation Criteria Guide 1201: Leakage Survey: Distribution and Transmission</p>		
7	If required to complete the test, perform temporary or permanent repairs, in accordance with Covered Task Summary 1422: Segment Repair, Replacement, Etc. (Service Lines, Mains and Transmission Lines)	Yes	
	<p>Individuals who perform temporary or permanent repairs shall complete associated evaluations in accordance with Performance Evaluation Criteria Guide 1422: Segment Repair, Replacement, Etc. (Service Lines, Mains and Transmission Lines)</p>		
8	If temporary repairs were performed to complete test, perform permanent repairs in accordance with Covered Task Summary 1422: Segment Repair, Replacement, Etc. (Service Lines, Mains and Transmission Lines)	Yes	
	<p>Individuals who perform permanent repairs shall complete associated evaluations in accordance with Performance Evaluation Criteria Guide 1422: Segment Repair, Replacement, Etc. (Service Lines, Mains and Transmission Lines)</p>		
9	If required, remove isolation		

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-1301.01 Leak/Strength Test - Svc/Main/Trans. Line: Gas pressure  $\leq$ 100 psi

Step #	Activity	Yes	Comments
	The individual will be able to remove isolation installed during Step 2		
10	If required, perform leak test at operating pressure	Yes	
	Abnormal Operating Conditions		
	A. Leak detected		
	The individual will be able to perform leak test at operating pressure, i.e.:		
	A. Locate leaks visually, by sound, or by smell, utilizing:		
	1. Gas detector equipment		
	2. Pressure drop		
	3. Bubble leakage test		
	4. Etc.		
	B. Verify that multiple leaks have been detected		
11	Recognize and react to Abnormal Operating Condition(s)	Yes	
	Category: Noncompliance With Procedures, Standards & Other Requirements		
	A. Leak detected		
	B. Test procedure not followed		
	C. Pipe over pressured		
	The individual will be able to:		
	A. Recognize Abnormal Operating Condition(s) that may be encountered while performing the task		
	B. React to the Abnormal Operating Condition(s) by:		
	1. Initiating remedial action, or		
	2. Reporting for analysis to determine:		
	a. If remedial action is required		
	b. Remedial action to correct the Abnormal Operating Condition(s)		
12	If required, complete documentation	Yes	
	If an individual successfully completes the steps for the task they are being evaluated for they are qualified for the task. Failure to successfully complete this step does not impact the individual's qualification for the task.		
	The individual will be able to:		
	A. Identify documentation (records) to be completed.		
	B. Define the required information that is to be recorded		
	C. Complete the records (paper or computer)		
	D. Submit the records for retention		

Candidate: 

Evaluator: 

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-0801.01 Locating Pipelines

Work Location: Granville City Shop - GRAN

Evaluator: Kowalczyk, Peter - K0840

Evaluation Method: Simulation

Duration: 10 minutes

Qualified?: Yes

Step #	Activity	Sat	Comments
1	<p>Perform equipment operation check</p> <p>The individual will, before the first locate, be able to:</p> <ul style="list-style-type: none"> <li>A. Perform equipment operation check in accordance with manufacturer's instructions</li> <li>B. Verifying battery strength, if required</li> <li>C. Initiate corrective action for equipment out of specification</li> </ul>	Yes	
2	<p>Verify scope of locate request</p> <p>The individual will be able to utilize maps/records and discussion with the excavator to:</p> <ul style="list-style-type: none"> <li>A. Determine type of pipe being located</li> <li>B. Verify location of job site</li> <li>C. Verify extent of locate request</li> </ul>	Yes	
3	<p>Visually inspect locate area</p> <p>Abnormal Operating Conditions</p> <ul style="list-style-type: none"> <li>A. Damaged pipe</li> <li>B. Damaged pipe coating</li> </ul> <p>The individual will be able to:</p> <ul style="list-style-type: none"> <li>A. Identify facilities that may affect locate</li> <li>B. Compare records to existing conditions and identify and communicate discrepancies</li> </ul>	Yes	
4	<p>Locate and mark the facility(ies)</p> <p>Abnormal Operating Conditions</p> <ul style="list-style-type: none"> <li>A. Damaged pipe</li> <li>B. Damaged pipe coating</li> <li>C. Missing or broken tracing wire</li> <li>D. Unable to locate pipeline</li> </ul> <p>The individual will be able to:</p> <ul style="list-style-type: none"> <li>A. Select type of locating method:                             <ul style="list-style-type: none"> <li>1. Conductive</li> <li>2. Inductive</li> <li>3. Measurement</li> </ul> </li> <li>B. Operate locate equipment in accordance with manufacturer's instructions</li> <li>C. Initiate action if signal is lost or insufficient</li> <li>D. Locate within scope of the request</li> <li>E. Mark (paint, flag or stake) the location of the facilities:                             <ul style="list-style-type: none"> <li>1. Mark changes in direction</li> <li>2. Place marks so there is no doubt about the location of facilities</li> </ul> </li> <li>F. Compare records to existing conditions and identify and communicate discrepancies</li> </ul>	Yes	

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-0801.01 Locating Pipelines

Step #	Activity	Sat	Comments
5	Recognize and react to Abnormal Operating Conditions  Category: Cathodic Protection/Corrosion A. Damaged pipe coating  Category: Contamination, Damage, Deterioration or Material Defect A. Damaged pipe B. Settlement C. Missing or broken tracing wire  Category: Noncompliance with procedures, standards & other requirements A. Unable to locate pipeline  The individual will be able to: A. Recognize Abnormal Operating Condition(s) that may be encountered while performing the task B. React to the Abnormal Operating Condition(s) by: 1. Initiating remedial action, or 2. Reporting for analysis to determine: a. If remedial action is required, and b. Remedial action to correct the Abnormal Operating Condition(s)	Yes	
6	If required, complete documentation  If an individual successfully completes the steps for the task they are being evaluated for they are qualified for the task. Failure to successfully complete this step does not impact the individual's qualification for the task.  The individual will be able to: A. Identify documentation (records) to be completed. B. Define the required information that is to be recorded C. Complete the records (paper or computer) D. Submit the records for retention	Yes	

Candidate:



Evaluator:



# Performance Evaluation

2327 - Blodgett, Paul

PEF192-1421.01 Installation of Steel Pipe-Repair of Imperfections/Damage: Grind

Work Location: Granville City Shop - GRAN

Evaluator: Kowalczyk, Peter - K0840

Evaluation Method: Simulation

Duration: 10 minutes

Qualified?: Yes

Step #	Activity	Sat	Comments
1	<p>Identify repair methods and requirements</p> <p>The individual will be able to identify methods and requirements for repairing imperfections and damage that impair the serviceability of a length of steel pipe:</p> <p>A. Methods</p> <ol style="list-style-type: none"><li>1. Grinding</li><li>2. Removal</li><li>3. Method that reliable engineering and analyses show can permanently restore the serviceability of pipe</li></ol> <p>B. Requirements</p> <ol style="list-style-type: none"><li>1. Steel pipe operated at any pressure - Each imperfection or damage that impairs the serviceability of a length of steel pipe must be repaired or removed. If a repair is made by grinding, the remaining wall thickness must at least be equal to either:<ol style="list-style-type: none"><li>a. The minimum thickness required by the tolerances in the specification to which the pipe was manufactured</li><li>b. The nominal wall thickness required for the design pressure of the pipeline</li></ol></li><li>2. Each of the following dents must be removed from steel pipe to be operated at a pressure that produces a hoop stress of 20 percent, or more, of SMYS, unless the dent is repaired by a method that reliable engineering tests and analyses show can permanently restore the serviceability of pipe:<ol style="list-style-type: none"><li>a. A dent that contains a stress concentrator such as a scratch, gouge, groove, or arc burn</li><li>b. A dent that affects the longitudinal weld or a circumferential weld</li><li>c. In pipe to be operated at a pressure that produces a hoop stress of 40 percent or more of SMYS, a dent that has a depth of:<ul style="list-style-type: none"><li>* More than 1/4 inch (6.4 millimeters) in pipe 12-3/4 inches (324 millimeters) or less in outer diameter</li><li>* More than 2 percent of the nominal pipe diameter in pipe over 12-3/4 inches (324 millimeters) in outer diameter</li></ul></li></ol></li></ol> <p>A "dent" is a depression that produces a gross disturbance in the curvature of the pipe wall without reducing the pipe-wall thickness. The depth of a dent is measured as the gap between the lowest point of the dent and a prolongation of the original contour of the pipe.</p> <ol style="list-style-type: none"><li>3. Each arc burn on steel pipe to be operated at a pressure that produces a hoop stress of 40 percent, or more, of SMYS must be repaired or removed. If a repair is made by grinding, the arc burn must be completely removed and the remaining wall thickness must be at least equal to either:<ol style="list-style-type: none"><li>a. The minimum wall thickness required by the tolerances in the specification to which the pipe was manufactured</li><li>b. The nominal wall thickness required for the design pressure of the pipeline</li></ol><ul style="list-style-type: none"><li>* A gouge, groove, arc burn, or dent may not be repaired by insert patching or by pounding out</li></ul></li></ol>		

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-1421.01 Installation of Steel Pipe-Repair of Imperfections/Damage: Grind

Step #	Activity	Sat	Comments
	* Each gouge, groove, arc burn, or dent that is removed from a length of pipe must be removed by cutting out the damaged portion as a cylinder		
2	Perform repair by grinding	Yes	
	Abnormal Operating Conditions A. Imperfection or damage not completely removed B. Minimum wall thickness not maintained		
	The individual will be able to: A. Select repair by grinding consistent with the requirements identified during Step 1 B. Remove the imperfection or damage by grinding C. Maintain the minimum required wall thickness		
3	Perform repair by welding in accordance with Covered Task Summary 2401: Welding	Yes	
	Individuals who perform repair by welding shall complete associated evaluations in accordance with Performance Evaluation Criteria Guide 2401: Welding		
4	Perform repair by a method that reliable engineering tests and analyses show can permanently restore the serviceability of pipe	Yes	
	Note: Repair by a composite sleeve may be an appropriate engineered method. If so the repair may be completed in accordance with CTS 1432: Leak Clamps and Sleeves Individuals who perform repair by composite sleeve shall complete associated evaluations in accordance with Performance Evaluation Criteria Guide 1432: Leak Clamps and Sleeves		
5	Inspect the repair	Yes	
	Individuals who inspect the repair shall complete associated evaluations: A. Repair by grinding in accordance with Performance Evaluation Criteria Guide 1411: Inspection B. Repair by Welding in accordance with Performance Evaluation Criteria Guide 2402: Visual Inspection of Welds		
6	Recognize and react to Abnormal Operating Conditions	Yes	
	Category: Noncompliance with Procedures, Standards & Other Requirements A. Imperfection or damage not completely removed B. Minimum wall thickness not maintained		
	The individual will be able to: A. Recognize abnormal operating conditions that may be encountered while performing the task B. React to the abnormal operating conditions by: 1. Initiating remedial action, or 2. Reporting for analysis to determine: a. If remedial action is required, and b. Remedial action to correct the abnormal operating conditions		

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-1421.01 Installation of Steel Pipe-Repair of Imperfections/Damage: Grind

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Step #	Activity	Sat	Comments
7	If required, complete documentation	Yes	

If an individual successfully completes the steps for the task they are being evaluated for they are qualified for the task. Failure to successfully complete this step does not impact the individual's qualification for the task.

The individual will be able to:

- A. Identify documentation (records) to be completed.
- B. Define the required information that is to be recorded
- C. Complete the records (paper or computer)
- D. Submit the records for retention

Candidate:



Evaluator:



# Performance Evaluation

2327 - Blodgett, Paul

PEF192-0402.01 Coating Maintenance: General

Work Location: Granville Fire Hall - GRAN

Evaluator: Kowalczyk, Peter - K0840

Evaluation Method: Oral

Duration: 20 minutes

Qualified?: Yes

Step #	Activity	Sat	Comments
1	<p>Identify the requirements for installing or repairing coatings</p> <p>The individual will be able to identify:</p> <p>A. Requirements for installing coatings</p> <ol style="list-style-type: none"> <li>1. Each external protective coating, whether conductive or insulating, applied for the purpose of external corrosion control must:                             <ol style="list-style-type: none"> <li>a. Be applied on a properly prepared surface</li> <li>b. Have sufficient adhesion to the metal surface to effectively resist underfilm migration of moisture;</li> <li>c. Be sufficiently ductile to resist cracking</li> <li>d. Have sufficient strength to resist damage due to handling and soil stress</li> <li>e. Have properties compatible with any supplemental cathodic protection</li> </ol> </li> <li>2. Each external protective coating must be inspected just prior to lowering the pipe into the ditch and backfilling, and any damage detrimental to effective corrosion control must be repaired</li> <li>3. Each external protective coating must be protected from damage resulting from adverse ditch conditions or damage from supporting blocks</li> <li>4. If coated pipe is installed by boring, driving, or other similar method, precautions must be taken to minimize damage to the coating during installation</li> </ol> <p>B. Requirements for repairing coatings</p> <ol style="list-style-type: none"> <li>1. Each segment of metallic pipe that replaces pipe removed from a buried or submerged pipeline because of external corrosion must have a properly prepared surface and must be provided with an external protective coating</li> </ol>	Yes	
2	<p>Remove deteriorated, damaged, or disbanded coating</p> <p>Abnormal Operating Conditions</p> <p>A. Pipe damaged</p> <p>The individual will be able to remove deteriorated, damaged or disbanded coating without damaging the pipe</p>	Yes	
3	<p>Inspect pipeline in accordance with Performance Evaluation Criteria Guide 0401: Corrosion Monitoring - Atmospheric, External, and Internal Corrosion</p> <p>Individuals who perform pipeline inspections shall complete associated evaluations in accordance with Performance Evaluation Criteria Guide 0401: Corrosion Monitoring - Atmospheric, External, and Internal Corrosion</p>	Yes	
4	<p>If required, repair, replace or alter pipeline segment in accordance with Performance Evaluation Criteria Guide 1422: Segment Repair, Replacement, Etc. (Service Lines, Mains, or Transmission Lines)</p> <p>Individuals who perform repair, replacement, or alteration of pipeline segment shall complete associated evaluations in accordance with Performance Evaluation Criteria Guide 1422: Segment Repair, Replacement,</p>		

# Performance Evaluation

2327 - Blodgett, Paul

Yes

PEF192-0402.01 Coating Maintenance: General

Step #	Activity	Sat	Comments
	Etc. (Service Lines, Mains, and Transmission Lines)		
5	Prepare pipe surface to receive protective coating system	Yes	
	<p><b>Abnormal Operating Conditions</b></p> <p>A. Pipe surface not prepared in accordance with the type of coating to be applied</p> <p>The individual will be able to:</p> <p>A. Select replacement coating systems which are:</p> <ol style="list-style-type: none"> <li>1. Compatible with existing coatings at transition interfaces</li> <li>2. Suitable for the operating temperature of the pipeline</li> <li>3. Suitable for above-grade or below-ground installation, as appropriate</li> <li>4. Within the usable shelf life of the product</li> </ol> <p>B. Prepare surfaces to receive new protective coating system in accordance with manufacturer's instructions</p>		
6	Apply protective coating system	Yes	
	<p><b>Abnormal Operating Conditions</b></p> <p>A. Contamination of protective coating system</p> <p>B. Coating system not bonded to pipe</p> <p>The individual will be able to apply the protective coating system in accordance with manufacturer's instructions</p>		
7	Protect external coating from damage	Yes	
	<p><b>Abnormal Operating Conditions</b></p> <p>A. Coating damage</p> <p>The individual will be able to protect the external coating from damage during handling, installation, and backfilling due to:</p> <ol style="list-style-type: none"> <li>A. Adverse ditch conditions or backfill material</li> <li>B. Supporting blocks</li> <li>C. Installation by boring, driving, or other similar methods</li> </ol>		
8	Inspect pipe coating system	Yes	
	<p><b>Abnormal Operating Conditions</b></p> <ol style="list-style-type: none"> <li>A. Lack of adhesion</li> <li>B. Incomplete curing</li> <li>C. Coating faults or holidays</li> <li>D. Thickness does not meet manufacturer's instructions</li> <li>E. Coating damage</li> </ol> <p>The individual will be able to inspect the pipe coating system at the required times:</p> <ol style="list-style-type: none"> <li>A. After application</li> <li>B. Just prior to lowering into a ditch</li> <li>C. Just prior to backfilling</li> </ol>		
9	Recognize and react to Abnormal Operating Condition(s)		
	Category: Contamination, Damage, Deterioration or Material Defect		

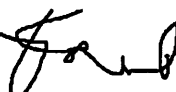
# Performance Evaluation

2327 - Blodgett, Paul

PEF192-0402.01 Coating Maintenance: General

Step #	Activity	Sat	Comments
	A. Pipe damage		
	Category: Noncompliance With Procedures, Standards & Other Requirements		
	A. Coating faults or holidays		
	B. Coating system not bonded to pipe		
	C. Coating damage		
	D. Incomplete curing		
	E. Lack of adhesion		
	F. Pipe surface not prepared in accordance with the type of coating to be applied		
	G. Thickness does not meet manufacturer's instructions		
	H. Contamination of protective coating system		
	The individual will be able to:		
	A. Recognize Abnormal Operating Condition(s) that may be encountered while performing the task		
	B. React to the Abnormal Operating Condition(s) by:		
	1. Initiating remedial action, or		
	2. Reporting for analysis to determine:		
	a. If remedial action is required, and		
	b. Remedial action to correct the Abnormal Operating Condition(s)		
10	If required, complete documentation	Yes	
	If an individual successfully completes the steps for the task they are being evaluated for they are qualified for the task. Failure to successfully complete this step does not impact the individual's qualification for the task.		
	The individual will be able to:		
	A. Identify documentation (records) to be completed.		
	B. Define the required information that is to be recorded		
	C. Complete the records (paper or computer)		
	D. Submit the records for retention		

Candidate:



Evaluator:



# Performance Evaluation

2327 - Blodgett, Paul

PEF192-0701.01 Locate/Inst/Protect Cust. Meters/Regulators: Res./Small Com

Work Location: City Granville Shop - GRAN

Evaluator: Kowalczyk, Peter - K0840

Evaluation Method: Simulation

Duration: 24 minutes

Qualified?: Yes

Step #	Activity	Sat	Comments
1	<p>Identify meter and regulator installation requirements</p> <p>The individual will be able to:</p> <p>A. Identify meter and regulator installation requirements:</p> <p>1. Location</p> <p>a. Installed in a readily accessible location that is protected from corrosion and other damage. The upstream regulator in a series may be buried.</p> <p>b. Service regulator(s) installed within a building must be located as near as practical to the point of service line entrance</p> <p>c. Meter(s) installed within a building must be located in a ventilated place and 3 feet from any source of ignition or heat which might damage the meter</p> <p>d. Upstream regulator in a series, (where feasible), must be located outside the building, unless it is located in a separate metering or regulating building</p> <p>2. Protection from Damage</p> <p>a. Service regulator vents and relief vents must terminate outdoors</p> <p>* Be located at a place where gas from the vent can escape freely into the atmosphere and away from any opening into the building</p> <p>* Be protected from damage caused by submergence in areas where flooding may occur</p> <p>3. Installation</p> <p>a. Each meter and each regulator must be installed so as to minimize anticipated stresses upon the connecting piping and the meter</p> <p>b. Each regulator that might release gas in its operation must be vented to the outside atmosphere</p> <p>c. Upstream regulator in a series, (where feasible), must be located outside the building, unless it is located in a separate metering or regulating building</p> <p>d. When close all-thread nipples are used, the wall thickness remaining after the threads are cut must meet the minimum wall thickness requirements of this part</p> <p>e. Connections made of lead or other easily damaged material may not be used in the installation of meters or regulators</p> <p>B. Identify relief device installation requirements:</p> <p>1. Installed so that it can be readily operated to determine if:</p> <p>a. The valve is operable</p> <p>b. Can be tested to determine the pressure at which it will operate</p> <p>c. Can be tested for leakage when in the closed position</p> <p>2. Installed so that the size of the openings, pipe, and fittings located between the system to be protected and the pressure relieving device, and the size of the vent line, are adequate to prevent:</p> <p>a. Hammering of the valve</p> <p>b. Impairment of relief capacity</p> <p>c. To minimize anticipated stresses upon the connecting piping and the meter</p>	Yes	Simulated & Tested on existing meters on East side of Community Center BLDG

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-0701.01 Locate/Inst/Protect Cust. Meters/Regulators: Res./Small Com

Step #	Activity	Sat	Comments
2	Identify meter(s) and regulator(s) to be installed  The individual will be able to identify the meter and regulator to be installed consistent with the customer load	Yes	
3	Identify meter and regulator installation location  The individual will be able to identify the meter and regulator installation location(s) in accordance with requirements identified during Step 1	Yes	
4	Install meter(s) and regulator(s)  Abnormal Operating Conditions A. Regulator vent located near building opening B. Regulator vent/ relief vent not terminated outdoors  The individual will be able to install the meter(s) and regulator(s), i.e.: A. In accordance with the manufacturer's instructions, B. To electrically isolate the meter, and C. To meet the requirements identified during Step 1	Yes	
5	If required, install relief device(s)  The individual will be able to install relief devices in accordance with the requirements identified during Step 1, i.e.: A. Installed so that it can be readily operated to determine if: 1. The valve is operable 2. Can be tested to determine the pressure at which it will operate 3. Can be tested for leakage when in the closed position B. Installed so that the size of the openings, pipe, and fittings located between the system to be protected and the pressure relieving device, and the size of the vent line, are adequate to prevent: 1. Hammering of the valve 2. Impairment of relief capacity 3. To minimize anticipated stresses upon the connecting piping and the meter	Yes	
6	Test relief valve(s) and regulator(s) in accordance with Performance Evaluation Criteria Guide 0702: Customer Pressure Regulating, Limiting and Relief Device - Operation and Maintenance  Individuals who perform relief valve and regulator testing shall complete associated evaluations in accordance with Performance Evaluation Criteria Guide 0702: Customer Pressure Regulating, Limiting and Relief Device - Operation and Maintenance	Yes	
7	Perform Leak Test in accordance with Performance Evaluation Criteria Guide 1301: Leak and Strength Test - Service Lines, Mains, and Transmission Lines  Individuals who perform leak test shall complete associated evaluations in accordance with Performance Evaluation Criteria Guide 1301: Leak and Strength Test - Service Lines, Mains, and Transmission Lines	Yes	
8	Recognize and react to Abnormal Operating Condition(s)		

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-0701.01 Locate/Inst/Protect Cust. Meters/Regulators: Res./Small Com

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Step #	Activity	§§§	Comments
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Category: Noncompliance with Procedures, Standards & Other Requirements

- A. Regulator vent located near building opening
- B. Regulator vent/relief vent not terminated outdoors

The individual will be able to:

A. Recognize Abnormal Operating Condition(s) that may be encountered while performing the task

B. React to the Abnormal Operating Condition(s) by:

- 1. Initiating remedial action, or
- 2. Reporting for analysis to determine:
  - a. If remedial action is required, and
  - b. Remedial action to correct the Abnormal Operating Condition(s)

9 If required, complete documentation Yes

If an individual successfully completes the steps for the task they are being evaluated for they are qualified for the task. Failure to successfully complete this step does not impact the individual's qualification for the task.

The individual will be able to:

- A. Identify documentation (records) to be completed.
- B. Define the required information that is to be recorded
- C. Complete the records (paper or computer)
- D. Submit the records for retention

Candidate:



Evaluator:



# Performance Evaluation

2327 - Blodgett, Paul

PEF192-0702.01 Cust. Pressure Regulate/Limit/Relief - O&M: Res./Small Comm

Work Location: Granville City Shop - GRAN

Evaluator: Kowalczyk, Peter - K0840

Evaluation Method: Simulation

Duration: 30 minutes

Qualified?: Yes

Step #	Activity	Sat	Comments
1	<p>Identify customer pressure regulating, limiting and relief device requirements</p> <p>The individual will be able to identify customer pressure regulating, limiting, and relief device requirements, i.e.:</p> <p>A. Installation of pressure relief and limiting devices</p> <ol style="list-style-type: none"> <li>1. Installed so that it can be readily operated to determine if:                             <ol style="list-style-type: none"> <li>a. The valve is operable</li> <li>b. Can be tested to determine the pressure at which it will operate</li> <li>c. Can be tested for leakage when in the closed position</li> </ol> </li> <li>2. Installed so that the size of the openings, pipe, and fittings located between the system to be protected and the pressure relieving device, and the size of the vent line, are adequate to prevent:                             <ol style="list-style-type: none"> <li>a. Hammering of the valve</li> <li>b. Impairment of relief capacity</li> <li>c. To minimize anticipated stresses upon the connecting piping and the meter</li> </ol> </li> </ol> <p>B. Location</p> <ol style="list-style-type: none"> <li>1. Installed in a readily accessible location that is protected from corrosion and other damage. The upstream regulator in a series may be buried.</li> <li>2. Service regulator(s) installed within a building must be located as near as practical to the point of service line entrance</li> <li>3. Each regulator that might release gas in its operation must be vented to the outside atmosphere</li> <li>4. Upstream regulator in a series, (where feasible), must be located outside the building, unless it is located in a separate metering or regulating building</li> </ol> <p>C. Protection from Damage</p> <ol style="list-style-type: none"> <li>1. Service regulator vents and relief vents must terminate outdoors</li> <li>2. Be located at a place where gas from the vent can escape freely into the atmosphere and away from any opening into the building</li> <li>3. Be protected from damage caused by submergence in areas where flooding may occur</li> </ol>	Yes	
2	<p>Visually inspect customer pressure regulating, limiting and relief devices</p> <p>Abnormal Operating Conditions</p> <ol style="list-style-type: none"> <li>A. Atmospheric corrosion</li> <li>B. Hammering</li> <li>C. Set point outside specified range</li> <li>D. Operation unreliable</li> <li>E. Improperly installed</li> <li>F. Dirt, liquids, or other conditions that might impair operation</li> <li>G. Gas leakage</li> <li>H. Damage to piping and equipment</li> </ol> <p>The individual will be able to visually inspect pressure regulating, limiting, and relief devices and equipment in accordance with the requirements identified during Step 1</p>	Yes	

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-0702.01 Cust. Pressure Regulate/Limit/Relief - O&M: Res./Small Comm

Step #	Activity	Sat	Comments
3	<p>If required maintain valves in accordance with Performance Evaluation Criteria Guide 1427: Valve Maintenance</p> <p>Individuals who perform valve maintenance shall complete associated evaluations in accordance with Performance Evaluation Criteria Guide 1427: Valve Maintenance</p>	Yes	
4	<p>Test customer pressure regulating and limiting devices</p> <p>Abnormal Operating Conditions</p> <ul style="list-style-type: none"> <li>A. Equipment mechanical condition deteriorated</li> <li>B. Equipment in unsafe operating condition</li> <li>C. Set point outside specified range</li> <li>D. Operation unreliability</li> <li>E. Does not function at specified pressure</li> </ul> <p>The individual will be able to test pressure regulating and limiting devices in accordance with the requirements established during Step 1</p>	Yes	
5	<p>Test customer relief devices</p> <p>Abnormal Operating Conditions</p> <ul style="list-style-type: none"> <li>A. Equipment mechanical condition deteriorated</li> <li>B. Equipment in unsafe operating condition</li> <li>C. Set point outside specified range</li> <li>D. Operation unreliability</li> <li>E. Does not function at specified pressure</li> </ul> <p>The individual will be able to test relief devices in accordance with the requirements identified during Step 1</p>	Yes	
6	<p>Maintain customer pressure regulating, limiting and relief devices</p> <p>Abnormal Operating Conditions</p> <ul style="list-style-type: none"> <li>A. Atmospheric corrosion</li> <li>B. Equipment mechanical condition deteriorated</li> <li>C. Equipment in unsafe operating condition</li> <li>D. Hammering</li> <li>E. Relief capacity impaired</li> <li>F. Inadequate capacity</li> <li>G. Set point outside specified range</li> <li>H. Inability to obtain set point</li> <li>I. Operation unreliability</li> <li>J. Inoperable components</li> <li>K. Does not function at specified pressure</li> <li>L. Abnormally high operating pressure</li> <li>M. Abnormally low operating pressure</li> <li>N. MAOP exceeded</li> <li>O. Improperly installed</li> <li>P. Dirt, liquids, or other conditions that might impair operation</li> <li>Q. Gas leakage</li> <li>R. Damage to piping and equipment</li> </ul> <p>The individual will be able to:</p> <ul style="list-style-type: none"> <li>A. Isolate or remove device from service</li> </ul>		

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-0702.01 Cust. Pressure Regulate/Limit/Relief - O&M: Res./Small Comm

Step #	Activity	Sat	Comments
	<ul style="list-style-type: none"> <li>B. Diagnose and troubleshoot device</li> <li>C. Perform internal inspection of device</li> <li>D. Perform required maintenance on device in accordance with manufacturer's instructions</li> <li>E. Return device to service</li> </ul>		
7	<p>Check and adjust operating pressure set point(s) of customer pressure regulating, limiting and relief devices</p> <p>Abnormal Operating Conditions</p> <ul style="list-style-type: none"> <li>A. Abnormally high operating pressure</li> <li>B. Abnormally low operating pressures</li> <li>C. Oscillating pressure</li> <li>D. Operating pressure set outside allowable range</li> <li>E. MAOP exceeded</li> <li>F. Pressure adjustment cannot be made</li> </ul> <p>The individual will be able to:</p> <ul style="list-style-type: none"> <li>A. Identify locations to check operating pressure set point(s) (inlet, outlet, intermediate stages, etc.)</li> <li>B. Install pressure gauges or utilize existing permanent gauges, recording charts</li> <li>C. Compare actual operating pressure set point(s) to specified pressure range set point(s)</li> <li>D. Locate and operate pressure adjusting components</li> <li>E. Observe results of adjustments and compare to specified range pressure range set point(s)</li> <li>F. Continue adjustments as necessary</li> <li>G. Adjust operating pressure set point(s) to be within specified pressure set point(s) range</li> </ul>	Yes	
8	<p>Recognize and react to Abnormal Operating Condition(s)</p> <p>Category: Cathodic Protection/Corrosion</p> <ul style="list-style-type: none"> <li>A. Atmospheric corrosion</li> </ul> <p>Category: Component Malfunction</p> <ul style="list-style-type: none"> <li>A. Hammering</li> <li>B. Operation unreliable</li> <li>C. Inoperable components</li> <li>D. Set point outside specified range</li> <li>E. Inability to obtain set point</li> <li>F. Does not function at specified pressure</li> <li>G. Pressure adjustment cannot be made</li> </ul> <p>Category: Contamination, Damage, Deterioration or Material Defect</p> <ul style="list-style-type: none"> <li>A. Damage to piping and equipment</li> <li>B. Dirt, liquids, or other conditions that might impair operation</li> <li>C. Equipment mechanical condition deteriorated</li> <li>D. Equipment in unsafe operating condition</li> </ul> <p>Category: Gas Leak/Unexpected Source of Gas</p> <ul style="list-style-type: none"> <li>A. Gas Leakage</li> </ul> <p>Category: Noncompliance with Procedures, Standards &amp; Other Requirements</p>		

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-0702.01 Cust. Pressure Regulate/Limit/Relief - O&M: Res./Small Comm

Step #	Activity	Sat	Comments
	<ul style="list-style-type: none"> <li>A. Improperly installed</li> <li>B. Operating pressure set outside allowable range</li> </ul> <p>Category: Pressure Problem</p> <ul style="list-style-type: none"> <li>A. Abnormally high operating pressure</li> <li>B. Abnormally low operating pressure</li> <li>C. MAOP exceeded</li> <li>D. Inadequate capacity</li> <li>E. Relief capacity impaired</li> <li>F. Oscillating pressure</li> </ul> <p>The individual will be able to:</p> <ul style="list-style-type: none"> <li>A. Recognize Abnormal Operating Condition(s) that may be encountered while performing the task</li> <li>B. React to the Abnormal Operating Condition(s) by:                             <ul style="list-style-type: none"> <li>1. Initiating remedial action, or</li> <li>2. Reporting for analysis to determine:                                     <ul style="list-style-type: none"> <li>a. If remedial action is required, and</li> <li>b. Remedial action to correct the Abnormal Operating Condition(s)</li> </ul> </li> </ul> </li> </ul>		
9	<p>If required, complete documentation</p> <p>If an individual successfully completes the steps for the task they are being evaluated for they are qualified for the task. Failure to successfully complete this step does not impact the individual's qualification for the task.</p> <p>The individual will be able to:</p> <ul style="list-style-type: none"> <li>A. Identify documentation (records) to be completed.</li> <li>B. Define the required information that is to be recorded</li> <li>C. Complete the records (paper or computer)</li> <li>D. Submit the records for retention</li> </ul>	Yes	

Candidate: *Paul JB*

Evaluator: *Pete*

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-1202.01 Outside Gas Leakage Investigation, Pinpointing, and Grading

Work Location: Granville City Shop - GRAN

Evaluator: Kowalczyk, Peter - K0840

Evaluation Method: Oral

Duration: 15 minutes

Qualified?: Yes

Step #	Activity	Sat	Comments
1	Prompt leakage investigation  The individual will promptly: A. Respond and investigate a notice of reported gas leakage, B. Investigate suspected gas leakage found during surveys, patrols or by other means	Yes	
2	Perform equipment operation check  The individual will, prior to use and periodically, be able to: A. Perform equipment operation check in accordance with manufacturer's instructions, including: 1. Verifying the sampling system is free of obstructions 2. Verifying filters are not obstructing the sample flow B. Initiate corrective action for equipment out of specification	Yes	
3	If hazardous leakage, initiate precautionary actions  Abnormal Operating Conditions A. Hazardous gas leakage  The individual will be able to initiate precautionary actions at any time that hazardous gas leakage is found i.e.: A. Evacuate B. Control flow of leaking gas and it's migration C. Ventilate affected premises D. Determine the full extent of the hazardous area, including the discovery of gas migration and secondary damage E. Monitor for a change in the extent of the hazardous area F. Coordinate with fire, police and other public officials the actions to be taken	Yes	
4	If required, initiate prevention of accidental ignition in accordance with Covered Task Summary 2011: Prevention of Accidental Ignition  Individuals who perform initiation of Prevention of Accidental Ignition shall complete associated evaluations in accordance with Performance Evaluation Criteria Guide 2011: Prevention of Accidental Ignition.	Yes	
5	If required perform inside leakage investigation in accordance with Covered Task Summary 1203: Inside Gas Leakage Investigation  Individuals who perform inside leakage investigation shall complete associated evaluations in accordance with Performance Evaluation Criteria Guide 1203: Inside Gas Leakage Investigation.	Yes	
6	Visually inspect area of leakage		

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-1202.01 Outside Gas Leakage Investigation, Pinpointing, and Grading

Step #	Activity	Yes Sat	Comments
	<p>Abnormal Operating Conditions</p> <p>A. Hazardous gas leakage</p> <p>The individual will be able to:</p> <p>A. Visually inspect the area for evidence of activities that could have contributed to the leakage, and evidence of gas leakage i.e.:</p> <p>1. Reported gas leakage:</p> <p>a. Check with the reporting individual,</p> <p>b. Take an initial bar test at the location of the suspected gas leakage</p> <p>2. All suspected gas leakage:</p> <p>a. Recent construction activities,</p> <p>b. Excavations and trenches along which gas may migrate and vent</p> <p>c. Patches to road surfaces</p> <p>d. Dead grass, dead trees, dead bushes, cracked dry ground</p> <p>e. Location of valve fittings, tees, stubs and connections at which gas leakage is likely</p> <p>f. Etc.</p>		
7	<p>Identify the location of buried pipelines in area of leakage</p> <p>The individual will be able to identify the location of buried pipelines, i.e.:</p> <p>A. Maps and records</p> <p>B. Dispatch instructions</p> <p>C. Field observations</p>	Yes	
8	<p>Identify the location of foreign facilities in area of leakage</p> <p>The individual will be able to identify evidence of foreign facilities within the area of the spread of gas before bar testing, i.e.:</p> <p>A. Electric</p> <p>B. Telephone</p> <p>C. Cable TV</p> <p>D. Etc.</p>	Yes	
9			

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-1202.01 Outside Gas Leakage Investigation, Pinpointing, and Grading

Step #	Activity	Sat	Comments
	Pinpoint the leak	Yes	Paul Blodgett brought over their CGI, turned it on and explained what the machine registers and how to use it.
	<p>Abnormal Operating Conditions</p> <ul style="list-style-type: none"> <li>A. Hazardous gas leakage</li> <li>B. Probe damages pipe</li> <li>C. Probe damages pipe coating</li> <li>D. Multiple leaks</li> <li>E. LP or other gases present</li> <li>F. Gas in a duct or sewer system</li> </ul> <p>The individual will be able to pinpoint the leak i.e.:</p> <ul style="list-style-type: none"> <li>A. Establish outer boundary of leak indications to define the area in which the leak may be located</li> <li>B. Initiate bar hole tests at required intervals</li> <li>C. Making all bar test holes the same depth and size</li> <li>D. Evenly space the bar holes</li> <li>E. Take leak detector readings at equal depth</li> <li>F. Clear leak detector before and between each bar test hole</li> <li>G. Use leak detector direction of greater concentration of combustible gas</li> <li>H. Record sustained reading for each of the bar test holes</li> <li>I. Use only the highest sustained readings, the gas can be traced to its source by identifying the test holes with the highest readings</li> <li>J. Continue bar test holes at closer intervals, after the initial bar test holes, until the point of maximum concentration is located</li> <li>K. When underground leakage has been identified, complete additional holes and deeper holes to more closely bracket the area. (For example, test holes may be spaced six feet apart initially and then the six foot spacing between the two highest test holes might be probed with additional test holes, with spacing as close as twelve inches.)</li> <li>L. Complete additional tests include taking CGI readings at the top of a barhole or using manometer or bubble forming solution to determine which barhole has the greatest positive flow. Other indications are dust particles blowing from the barhole(s), the sound of gas coming from the barhole or the feel of gas flow on a sensitive skin surface. On occasion, sunlight diffraction can be observed as the gas vents to the atmosphere.</li> <li>M. If the soil retains considerable combustible gas, making it difficult to pinpoint the leakage, the soil shall be exhausted and a recheck shall be made to accurately determine the location and intensity of the leak</li> <li>N. If gas is venting into an underground conduit or sewer system:               <ul style="list-style-type: none"> <li>1.. Investigate to assure it has not traveled beyond expected leak boundary</li> <li>2. Test at available openings to isolate the source. Many times the leak is found at the intersection of the foreign conduit and a gas line. Particular attention should be given to these locations</li> </ul> </li> </ul>		
10	Grade the leak		
	<p>Abnormal Operating Conditions</p> <ul style="list-style-type: none"> <li>A. Hazardous leakage</li> </ul> <p>The individual will be able to grade identified (found) leaks based on:</p> <ul style="list-style-type: none"> <li>B. An evaluation of the location</li> <li>C. Magnitude of a leak</li> <li>D. Assign the leak grades and establish the priority of leak repair, i.e.:</li> </ul>		

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-1202.01 Outside Gas Leakage Investigation, Pinpointing, and Grading

Step #	Activity	Sat	Comments
	<p>1. Grade 1, a leak that represents an existing or probable hazard to persons or property and requires immediate repair or continuous action until the conditions are no longer hazardous</p> <p>2. Grade 2, a leak that is recognized as being non-hazardous at the time of detection, but, requires scheduled repair based on probable future hazard</p> <p>3. Grade 3, a leak that is non-hazardous at the time of detection and can be reasonably expected to remain non-hazardous</p>		
11	<p>Recognize and react to Abnormal Operating Conditions</p> <p>Category: Gas Leak/Unexpected Source of Gas</p> <p>A. Hazardous gas leakage</p> <p>B. Gas in a duct or sewer system</p> <p>C. Multiple leaks</p> <p>Category: Noncompliance with Procedures, Standards &amp; Other Requirements</p> <p>A. Probe damaged pipe</p> <p>B. Probe damaged pipe coating</p> <p>The individual will be able to:</p> <p>A. Recognize Abnormal Operating Condition(s) that may be encountered while performing the task</p> <p>B. React to the Abnormal Operating Condition(s) by:</p> <p>1. Initiating remedial action, or</p> <p>2. Reporting for analysis to determine:</p> <p>a. If remedial action is required, and</p> <p>b. Remedial action to correct the Abnormal Operating Condition(s)</p>	Yes	
12	<p>If required, complete documentation</p> <p>If an individual successfully completes the steps for the task they are being evaluated for they are qualified for the task. Failure to successfully complete this step does not impact the individual's qualification for the task.</p> <p>The individual will be able to:</p> <p>A. Identify documentation (records) to be completed.</p> <p>B. Define the required information that is to be recorded</p> <p>C. Complete the records (paper or computer)</p> <p>D. Submit the records for retention</p>	Yes	

Candidate: 

Evaluator: 

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-1427.01 Valve Maintenance: Inspection/Partial Operation

Work Location: Granville City Shop - GRAN

Evaluator: Kowalczyk, Peter - K0840

Evaluation Method: Simulation

Duration: 30 minutes

Qualified?: Yes

Step #	Activity	Sat	Comments
1	<p>Identify requirements for evaluation of distribution and transmission valves</p> <p>The individual will be able to:</p> <p>A. Identify requirements for evaluation of distribution valves, i.e.:</p> <ol style="list-style-type: none"> <li>1. Inspecting for signs of                             <ol style="list-style-type: none"> <li>a. Damage</li> <li>b. Deterioration</li> <li>c. Corrosion</li> <li>d. Proper alignment for use of key or wrench</li> </ol> </li> <li>2. Clearing valve box or vault of debris if needed</li> <li>3. Lubricating as needed</li> <li>4. Checking valve function by partial operation</li> </ol> <p>B. Identify requirements for evaluation of transmission valves, i.e.:</p> <ol style="list-style-type: none"> <li>1. Inspecting for signs of                             <ol style="list-style-type: none"> <li>a. Damage</li> <li>b. Deterioration</li> <li>c. Corrosion</li> </ol> </li> <li>2. Lubricating as needed</li> <li>3. Checking valve function by partial operation</li> </ol>	Yes	
2	<p>Identify valve(s) for evaluation and maintenance</p> <p>Abnormal Operating Conditions</p> <p>A. Valve(s) not tagged</p> <p>The individual will be able to identify valve(s) for evaluation and maintenance</p>	Yes	
3	<p>Evaluate valve(s)</p> <p>Abnormal Operating Conditions</p> <p>A. Valve is corroded to the extent that repair or replacement is required</p> <p>B. Valve is inoperable to the extent that repair or replacement is required</p> <p>C. Valve is damaged or deteriorated to the extent that repair or replacement is required</p> <p>The individual will be able to perform valve inspection and maintenance in accordance with identified requirements identified during Step 1, i.e.:</p> <p>A. Inspect,</p> <p>B. Lubricate,</p> <p>C. Partially operate</p>	Yes	
4	<p>Preserve valve(s)</p> <p>The individual will be able to:</p> <p>A. Complete assigned work without damaging valve(s)</p> <p>B. Preserve valves in accordance with:</p>		

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-1427.01 Valve Maintenance: Inspection/Partial ~~Operation~~

Step #	Activity	Sat	Comments
	1. The requirements identified during Step 1, 2. Manufacturer's instructions		
5	Recognize and react to Abnormal Operating Condition(s)	Yes	
	Category: Cathodic Protection/Corrosion A. Valve is corroded to the extent that repair or replacement is required		
	Category: Component Malfunction A. Valve is inoperable to the extent that repair or replacement is required		
	Category: Contamination, Damage, Deterioration or Material Defect A. Valve is damaged or deteriorated to the extent that repair or replacement is required		
	Noncompliance with Procedures, Standards or Other Requirements A. Valve(s) not tagged		
	The individual will be able to: A. Recognize Abnormal Operating Condition(s) that may be encountered while performing the task, and B. React to the Abnormal Operating Condition(s) by: 1. Initiating remedial action, or 2. Reporting for analysis to determine: a. If remedial action is required, and b. Remedial action to correct the Abnormal Operating Condition(s)		
6	If required, complete documentation	Yes	
	If an individual successfully completes the steps for the task they are being evaluated for they are qualified for the task. Failure to successfully complete this step does not impact the individual's qualification for the task.		
	The individual will be able to: A. Identify documentation (records) to be completed. B. Define the required information that is to be recorded C. Complete the records (paper or computer) D. Submit the records for retention		

Candidate: *Paul Blodgett*

Evaluator: *Paul Blodgett*

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-1427.02 Valve Maintenance: Maintenance

Work Location: Granville City Shop - GRAN

Evaluator: Kowalczyk, Peter - K0840

Evaluation Method: Simulation

Duration: 20 minutes

Qualified?: Yes

Step #	Activity	Sat	Comments
1	Identify requirements for maintenance of distribution and transmission valves  The individual will be able to identify requirements for maintenance of valve(s) in accordance with manufacturer's instructions	Yes	
2	Identify valve(s) for evaluation and maintenance  Abnormal Operating Conditions A. Valve(s) not tagged  The individual will be able to identify valve(s) for evaluation and maintenance	Yes	
3	If required, remove valve(s) from service in accordance with Covered Task Summary 1414: Pipeline Shutdown, Startup and Pressure Change  Individuals who remove valves from service shall complete associated evaluations in accordance with Performance Evaluation Criteria Guide 1414: Pipeline Shutdown, Startup and Pressure Change	Yes	
4	Maintain valve(s)  The individual will be able to: A. Repair, replace and install valve(s) to meet the requirements identified during Step 1, B. In accordance with manufacturer's instructions.	Yes	
5	If required, return valve(s) to service in accordance with Covered Task Summary 1414: Pipeline Shutdown, Startup and Pressure Change  Individuals who return valves to service shall complete associated evaluations in accordance with Performance Evaluation Criteria Guide 1414: Pipeline Shutdown, Startup and Pressure Change	Yes	
6	Recognize and react to Abnormal Operating Condition(s)  Category: Cathodic Protection/Corrosion A. Pipeline corroded B. Coating damaged C. Coating deteriorated  Category: Contamination, Damage, Deterioration or Material Defect A. Pipeline damaged  Noncompliance with Procedures, Standards or Other Requirements A. Valve(s) not tagged		


Yes

# Performance Evaluation

2327 - Blodgett, Paul

PEF192-1427.02 Valve Maintenance: Maintenance

Step #	Activity	Sat	Comments
	<p>The individual will be able to:</p> <ul style="list-style-type: none"><li>A. Recognize Abnormal Operating Condition(s) that may be encountered while performing the task, and</li><li>B. React to the Abnormal Operating Condition(s) by:<ul style="list-style-type: none"><li>1. Initiating remedial action, or</li><li>2. Reporting for analysis to determine:<ul style="list-style-type: none"><li>a. If remedial action is required, and</li><li>b. Remedial action to correct the Abnormal Operating Condition(s)</li></ul></li></ul></li></ul>		
7	<p>If required, complete documentation</p> <p>If an individual successfully completes the steps for the task they are being evaluated for they are qualified for the task. Failure to successfully complete this step does not impact the individual's qualification for the task.</p> <p>The individual will be able to:</p> <ul style="list-style-type: none"><li>A. Identify documentation (records) to be completed.</li><li>B. Define the required information that is to be recorded</li><li>C. Complete the records (paper or computer)</li><li>D. Submit the records for retention</li></ul>	Yes	

Candidate: 

Evaluator: 

APPENDIX E  
Form 6

PROPANE SYSTEM KEY VALVE INSPECTION REPORT

Valve Number	#8	#9	#10	#11	#12
Location	vapor dist.	vapor dist.	vapor dist.	vapor dist.	vapor dist.
Sketch Number (See Form 5)	8	9	10	11	12
Above Ground	✓	✓	✓	✓	✓
Below Ground					
Date Inspected	9/4/13	9/4/13	9/4/13	9/4/13	9/4/13
Operating Condition*	good	good	good	good	good
Check for external corrosion	✓	✓	✓	✓	✓
Check for leaks	✓ none	✓ none	✓ none	✓ none	✓ none
Lubricated	N/A	N/A	N/A	N/A	N/A
Description of corrections made	None	None	None	None	None
Signature of Operator	TJS	TJS	TJS	TJS	TJS

\*Good - Valve operates with minimum effort  
 Fair - Valve operates freely, but some friction present  
 Poor - Valve operates, but with difficulty

*Taylor* 9/4/13



CITY OF GRANVILLE

APPENDIX E  
Form 6

PROPANE SYSTEM KEY VALVE INSPECTION REPORT

Valve Number	8	9	10	11	12
Location	Vapor distribution	Vapor distribution	Vapor distribution	Vapor distribution	Vapor distribution
Sketch Number (See Form 5)	8	9	10	11	12
Above Ground	X	X	X	X	X
Below Ground					
Date Inspected	10-16-12	10-16-12	10-16-12	10-16-12	10-16-12
Operating Condition*	good	good	good	good	good
Check for external corrosion	X	X	X	X	X
Check for leaks	X	X	X	X	X
Lubricated	N/A	N/A	N/A	N/A	N/A
Description of corrections made	none	none	none	none	none
Signature of Operator	TJS	TJS	TJS	TJS	TJS

\*Good - Valve operates with minimum effort  
 Fair - Valve operates freely, but some friction present  
 Poor - Valve operates, but with difficulty

Taylor [Signature] 10-16-12

CITY OF GRANVILLE

APPENDIX #  
Form 6

PROPANE SYSTEM KEY VALVE INSPECTION REPORT

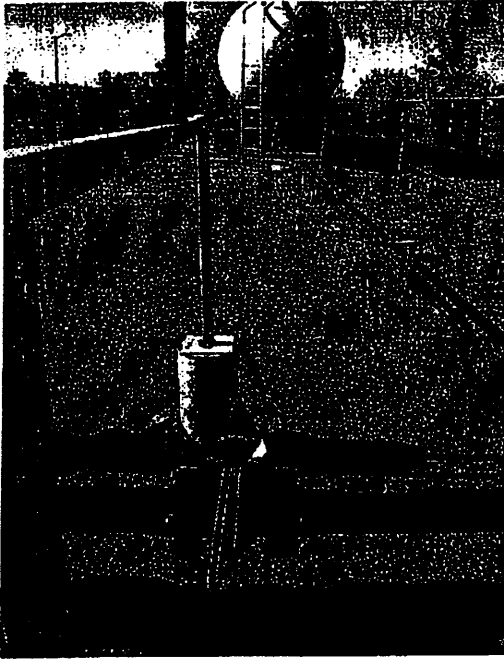
Valve Number	8	9	10	11	12
Location	Vapor Distribution	Vapor Distribution	Vapor Distribution	Vapor Distribution	Vapor Distribution
Sketch Number (See Form 5)	8	9	10	11	12
Above Ground	X	X	X	X	X
Below Ground					
Date Inspected	12-2-11	12-2-11	12-2-11	12-2-11	12-2-11
Operating Condition*	Good	Good	Good	Good	Good
Check for external corrosion	✓	✓	✓	✓	✓
Check for leaks	✓	✓	✓	✓	✓
Lubricated	N/A	N/A	N/A	N/A	N/A
Description of corrections made	none	none	none	none	none
Signature of Operator	KD	D	KD	KD	KD

*Karl Duder*

- \*Good - Valve operates with minimum effort
- Fair - Valve operates freely, but some friction present
- Poor - Valve operates, but with difficulty

All valves + lines @ Plant were leak checked + painted April 2011

Manual Shutoff Emergency Key Valve (#12)



Back Check Valve (#13)



	Valve #12	Valve #13
Date Inspected	12-11-15	12-11-15
Location	Liquid feed line	Vapor feed line
Capacity	175 psi	200 psi
Operating Condition *	good	good
Leak Check Performed	yes / soaped	yes / soaped
External Corrosion Condition	good	good
Lubricated	yes / walter 80	NA

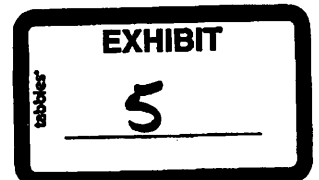
Remarks of repairs made or other comments:

access to valve was good, turned valve #12 partially.

Signature of Operator who performed annual check:

Jim Hallen. 12-11-15

8



**Credits -- By User: Haugen Jeff****(Click the course link to see all of the recorded scores for the course)**Export to Excel:  Uncheck to see all courses.

Course Name	Score	Passed	Credits Earned	Date Scored
192 AOC e-TNG Abnormal Operating Conditions	100%	Yes	1	2/19/2015
192 AOC KNT Abnormal Operating Conditions	95%	Yes	1	2/19/2015
192-0101 e-TNG Characteristics and Hazards of Natural Gas	100%	Yes	1	2/17/2015
192-0101 KNT Characteristics and Hazards of Natural Gas	87%	Yes	1	2/17/2015
192-0201 e-TNG Gas Detection and Alarm System Maintenance	57%	No	0	3/25/2015
192-0402 e-TNG Coating Maintenance	100%	Yes	1	2/17/2015
192-0402 KNT Coating Maintenance	100%	Yes	1	2/17/2015
192-0503 e-TNG Cathodic Protection Systems: Electrical Connections	100%	Yes	1	3/17/2015
192-0503 KNT Cathodic Protection Systems: Electrical Connections	90%	Yes	1	3/17/2015
192-0512 e-TNG Pipe-to-Soil Testing	100%	Yes	1	2/17/2015
192-0512 KNT Pipe-to-Soil Testing	93%	Yes	1	2/17/2015
192-0701 e-TNG Locating, Installing, and Protecting Customer Meters and Regulators	100%	Yes	1	3/25/2015
192-0701 KNT Locate, Install, Protect Customer Meters/Regulators	85%	Yes	1	3/25/2015
192-0801 e-TNG Locating Pipelines	100%	Yes	1	3/27/2015
192-0801 KNT Locating Pipelines	95%	Yes	1	3/27/2015
192-0803 e-TNG Inspection for Damage	100%	Yes	1	3/25/2015
192-0803 KNT Inspection for Damage	100%	Yes	1	3/25/2015
192-0804 e-TNG Damage Prevention During Excavation	100%	Yes	1	2/18/2015
192-0804 KNT Damage Prevention During Excavation	95%	Yes	1	2/18/2015
192-1002 e-TNG Plastic Pipe: Electrofusion	100%	Yes	1	2/19/2015
192-1002 KNT Plastic Pipe - Electrofusion	100%	Yes	1	2/19/2015
192-1003 e-TNG Plastic Pipe - Butt Heat Fusion	100%	Yes	1	2/19/2015
192-1003 KNT Plastic Pipe - Butt Heat Fusion	87%	Yes	1	2/19/2015
192-1004 e-TNG Plastic Pipe: Sidewall Heat Fusion	100%	Yes	1	2/19/2015
192-1004 KNT Plastic Pipe - Sidewall Heat Fusion	100%	Yes	1	2/19/2015

192-1005 e-TNG Mechanical Joints	100%	Yes	1	3/17/2015
192-1005 KNT Mechanical Joints	95%	Yes	1	3/17/2015
192-1006 e-TNG Plastic Pipe: Socket Heat Fusion	100%	Yes	1	2/20/2015
192-1006 KNT Plastic Pipe - Socket Heat Fusion	100%	Yes	1	2/20/2015
192-1202 e-TNG Outside Leakage Investigation	100%	Yes	1	3/26/2015
192-1202 KNT Outside Leakage Investigation, Pinpointing, Grading	100%	Yes	1	3/26/2015
192-1203 e-TNG Inside Leakage Investigation	100%	Yes	1	3/26/2015
192-1203 KNT Inside Gas Leakage Investigation	100%	Yes	1	3/26/2015
192-1301 e-TNG Leak and Strength Test: Service Lines, Mains, Transmission Lines	100%	Yes	1	3/20/2015
192-1301 KNT Leak and Strength Test - Service Lines, Mains, Transmission Lines	100%	Yes	1	3/20/2015
192-1401 e-TNG Abandonment or Inactivation of Facilities	100%	Yes	1	3/20/2015
192-1401 KNT Abandonment or Inactivation of Facilities	80%	Yes	1	3/20/2015
192-1402 e-TNG Backfilling	100%	Yes	1	2/20/2015
192-1402 KNT Backfilling	95%	Yes	1	2/20/2015
192-1405 e-TNG Underground Clearances	100%	Yes	1	3/23/2015
192-1405 KNT Underground Clearances	100%	Yes	1	3/23/2015
192-1408 e-TNG Installation of Plastic Pipe	100%	Yes	1	3/23/2015
192-1408 KNT Installation of Plastic Pipe	95%	Yes	1	3/23/2015
192-1409 e-TNG Installation of Steel Pipe	100%	Yes	1	3/23/2015
192-1409 KNT Installation of Steel Pipe	80%	Yes	1	3/23/2015
192-1410 e-TNG Cover - Service Lines, Mains, and Transmission Lines	100%	Yes	1	3/23/2015
192-1410 KNT Cover - Service Lines, Mains, and Transmission Lines	100%	Yes	1	3/23/2015
192-1411 e-TNG Inspection	100%	Yes	1	3/23/2015
192-1411 KNT Inspection	85%	Yes	1	3/23/2015
192-1414 e-TNG Pipeline Shutdown, Startup, or Pressure Change	100%	Yes	1	3/23/2015
192-1414 KNT Pipeline Shutdown, Startup, or Pressure	90%	Yes	1	3/23/2015
192-1415 e-TNG Protection from Hazards	100%	Yes	1	3/24/2015
192-1415 KNT Protection from Hazards	90%	Yes	1	3/24/2015
192-1417 e-TNG Protection When Minimum Cover Not Met	100%	Yes	1	3/24/2015
192-1417 KNT Protection When Minimum Cover Not Met	93%	Yes	1	3/24/2015

192-1418 e-TNG Purging Natural Gas Pipelines	100%	Yes	1	3/24/2015
192-1418 KNT Purging Natural Gas Pipelines	95%	Yes	1	3/24/2015
192-1421 e-TNG Installation of Steel Pipe: Repair of Imperfections and Damage	100%	Yes	1	3/24/2015
192-1421 KNT Installation of Steel Pipe: Repair of Imperfections and Damage	100%	Yes	1	3/24/2015
192-1422 e-TNG Segment Repair, Replacement, Etc.	100%	Yes	1	3/24/2015
192-1426 e-TNG Tapping Steel and Plastic Pipe	100%	Yes	1	3/24/2015
192-1426 KNT Tapping Steel and Plastic Pipe	95%	Yes	1	3/24/2015
192-1427 e-TNG Valve Inspection and Maintenance	100%	Yes	1	3/30/2015
192-1427 KNT Valve Maintenance	95%	Yes	1	3/30/2015
192-1431 e-TNG Segment Removal	100%	Yes	1	3/24/2015
192-1431 KNT Segment Removal	100%	Yes	1	3/24/2015
192-1432 e-TNG Leak Clamps and Sleeves	100%	Yes	1	3/27/2015
192-1432 KNT Bolt-on Leak Clamps and Sleeves	80%	Yes	1	3/27/2015
192-1435 e-TNG Bypass - Gas Mains and Services	100%	Yes	1	3/24/2015
192-1435 KNT Bypass - Gas Mains and Services	100%	Yes	1	3/24/2015
192-2010 e-TNG Service Line Replacement	100%	Yes	1	3/25/2015
192-2010 KNT Service Line Replacement	90%	Yes	1	3/25/2015
192-2011 e-TNG Prevention of Accidental Ignition	100%	Yes	1	3/25/2015
192-2011 KNT Prevention of Accidental Ignition	80%	Yes	1	3/25/2015
192-2014 e-TNG Service Lines Not In Use and Service Discontinuance	100%	Yes	1	3/25/2015
192-2014 KNT Service Discontinuance	100%	Yes	1	3/25/2015
192-2401 e-TNG Welding	100%	Yes	1	3/26/2015
192-2401 KNT Welding	93%	Yes	1	3/26/2015
192-2402 e-TNG Visual Inspection of Welds	100%	Yes	1	3/26/2015
192-2402 KNT Visual Inspection of Welds	100%	Yes	1	3/27/2015
192-2403 e-TNG Nondestructive Testing of Welds	100%	Yes	1	3/30/2015
192-2403 KNT Nondestructive Testing of Welds	100%	Yes	1	3/30/2015

#### Outside Credits

Outside Credit Name	Score	Passed	Credits Earned	Date Scored
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There are currently no outside credits in your transcript.

**Total Credits Earned:81**

Note: Courses associated with certification programs may only have historical scores if the certification program has been reset. To see these scores, click on the course link

V-12010-#4

### MDU Original test Report 2/15/2014

<b>FIELD AUTOMATION</b>					Welcome ISDNTI\UNDERDAJ
Home	FCS	PCAD	Mobile Up	Construction	
<b>Inspection (Existing Pipe)</b>					
Pipe Inspection YES	Pipe Type PLASTIC	Coating Type	Plastic Type ORANGE	Pipe Size 3"	
Pipe Depth (Existing) 42	Exposed Pipe (Feet) 6	Facility Matches Map NO	Map Action Taken NOTIFIED		
External Condition GOOD	Circumferential (inches)	Longitudinal (Feet)	Coating Condition GOOD	Pipe/Wire to Soil (V) N/A	
Internal Condition GOOD	Pipe Liquids DRY	Inspection Comments			
<input type="checkbox"/> Notified Supt.					
<b>Pressure Test (New or Repair)</b>					
Pressure Test YES	Pipe Depth (New Install)	Pressure Test Comments			
Test Type SOAP	Pretested Lot # 02052014				
Test Pressure (psig)	Tested By CAMERON	Test Duration (Hrs)	Test Duration (Mins)		

MDU Original test report



#2

**City of Granville**

---

**From:** "City of Granville" <granville@srt.com>  
**Date:** Wednesday, September 16, 2015 8:28 AM  
**To:** "Dawn Roness" <dawn.roness@mdu.com>  
**Subject:** Fw: MDU Air Test

Dawn,

Regarding the test form you provided for the City of Granville yesterday, please see the Public Service Commission response detailed below. It sounds like they are not going to let us get by on this one meaning that we are going to have to reopen the ground where the leak was and retest the pipe for pressure to make sure the integrity and safety of our system is satisfactory.

Please forward this message onto Curt Olson and ask him if he can give me a call as soon as possible. We will need to work with MDU to have the pipe retested whether that means paying full price as truly we are the owner of reviewing those reports however, it was something that MDU missed completing for us at the time it was contracted. Either way, it needs to be done asap.

I will await response. Again this has a very sensitive time frame on it as the PSC wants to be well informed of our scheduled retest.

Thank You,  
Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369

**From:** Morman, Aaron A.  
**Sent:** Tuesday, September 15, 2015 4:54 PM  
**To:** City of Granville  
**Subject:** RE: MDU Air Test

Thanks for waiting. We just finished talking about it and I think we will be okay to operate "temporarily" with what you sent to us. It shows the test medium used, the test pressure, and the test duration. It does not however show what the pressure was at the beginning and at the end of the test, so it cannot be verified since the time of the repair that there was or is no leak. On one of the other forms we viewed last week, we saw that a piece of pre-tested pipe was used for the main repair but no records of its pressure test results were shown. At this time it appears that you must do a new pressure test to verify that your system is safe and without leaks. This needs to be done as soon as possible to prevent any question as to the safety and integrity of Granville's system.

Have you heard from the company who will be testing your PSV? That will be very important to get completed because you are now operating with a questionable safety relief in the system since it was not tested in the time interval needed.

Thanks.

*Aaron A Morman*

12/3/2015

North Dakota PSC  
Gas Pipeline Safety  
Program Manager/Inspector  
Cell phone: 701-220-5779  
Fax: 701-328-2410  
aarmorman@nd.gov

---

**From:** City of Granville [mailto:granville@srt.com]  
**Sent:** Tuesday, September 15, 2015 4:29 PM  
**To:** Morman, Aaron A.  
**Subject:** Re: MDU Air Test

Ok,

I am still at the office and will await your response.

Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369

**From:** Morman, Aaron A.  
**Sent:** Tuesday, September 15, 2015 4:08 PM  
**To:** City of Granville  
**Subject:** RE: MDU Air Test

Thanks, Anita. We are reviewing the form now.  
Aaron Morman

---

**From:** City of Granville [mailto:granville@srt.com]  
**Sent:** Tuesday, September 15, 2015 4:01 PM  
**To:** Morman, Aaron A.  
**Subject:** Fw: MDU Air Test

Aaron,

Here is what has been provided to me through MDU. Please let me know if this is sufficient and satisfies what you need.

Thank You,  
Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369

12/3/2015

**From:** Roness, Dawn  
**Sent:** Tuesday, September 15, 2015 3:56 PM  
**To:** granville@srt.com  
**Cc:** Olson, Curt ; Geiger, Eugene (Geno)  
**Subject:** RE: MDU Air Test

Sorry – forgot the attachment.

---

**From:** Roness, Dawn  
**Sent:** Tuesday, September 15, 2015 3:56 PM  
**To:** 'granville@srt.com'  
**Cc:** Olson, Curt; Geiger, Eugene (Geno)  
**Subject:** MDU Air Test

Attached please find the following:

- Page 1 – ¾" PL service line Record of Pressure Test of Gas Pipeline
- Page 2 – 1" Plastic service line Record of Pressure Test of Gas Pipeline

Please let me know if you need anything else.

Dawn Roness  
Field Operations Supervisor  
701 720-0879 mobile

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12/3/2015

41752(1-88)

MONTANA-DAKOTA UTILITIES CO / GREAT PLAINS NATURAL GAS CO.  
RECORD OF PRESSURE TEST OF GAS PIPELINE

Authorization

Work Order No. \_\_\_\_\_

Date Tested: 9/12/14

Division: Dakota Heartland

Town: Granville

Line Location: \_\_\_\_\_ Street(s)

From: \_\_\_\_\_

To: \_\_\_\_\_

Line Size & Length: 3/4" Plastic Sewer

Proposed Service: Low Pressure  Medium Pressure  Intermediate Pressure   
(Check One) (Up to 8 oz.) (8 oz. to 80 psig) (Less than transmission but more than medium)

Design Pressure: \_\_\_\_\_ psig; Test Pressure: 100 psig

Test Medium: Water \_\_\_\_\_; Air ; Gas \_\_\_\_\_

Time: At Start of Test \_\_\_\_\_ A.M. P.M.; At End of Test \_\_\_\_\_ A.M. P.M.

Length of Test: \_\_\_\_\_ Hrs. 15 Minutes

Elapsed Time	Pressure and Temperature Readings During Test	
	Pressure, psig	Temperature, °F.
At Start of Test	_____	_____
30 Minutes	_____	_____
One Hour	_____	_____
At End of Test	_____	_____

Pressure Correction Factor: (To be calculated only if there is a change in the temperature of the test medium.)  
(For Air or Gas Only)

$$\text{Final Pressure} = \frac{(P_1 + P_a) \cdot (T_2 + 460)}{(T_1 + 460)} \cdot P_a$$

Pa = Atmospheric Pressure in psia  
P1 = Pressure of Test Medium at End of 30 Minute Reading, psig  
T1 = Temperature of " " " " " " " " °F.  
T2 = Temperature " " " " " " " " Test, °F.

Calculated Final Pressure: \_\_\_\_\_

Test Made by: [Signature] Approved: \_\_\_\_\_  
(Foreman) (Superintendent)

Note: Recording charts of pressure and temperature, if used, are to be attached to the original of this form and kept on file in the division office.

21752(3-68)

MDU Report Received 9-15-15 page #2

MONTANA-DAKOTA UTILITIES CO./GREAT PLAINS NATURAL GAS CO.
RECORD OF PRESSURE TEST OF GAS PIPELINE

Authorization \_\_\_\_\_
Work Order No. \_\_\_\_\_

Date Tested: 2/12/14

Division: Dakota Heartland Town: Granville

Line Location: \_\_\_\_\_ Street(s) \_\_\_\_\_
From: \_\_\_\_\_
To: \_\_\_\_\_

Line Size & Length: 1 1/2" Plastic Service

Proposed Service: Low Pressure [ ] Medium Pressure [X] Intermediate Pressure [ ]
(Up to 8 oz.) (8 oz. to 80 psig) (Less than transmission but more than medium)

Design Pressure: \_\_\_\_\_ psig; Test Pressure: 100 psig

Test Medium: Water \_\_\_\_\_; Air [X]; Gas \_\_\_\_\_

Time: At Start of Test \_\_\_\_\_ A.M. P.M.; At End of Test \_\_\_\_\_ A.M. P.M.

Length of Test: \_\_\_\_\_ Hrs. 15 Minutes

Table with 3 columns: Elapsed Time, Pressure, psig, Temperature, °F. Rows include: At Start of Test, 30 Minutes, One Hour, At End of Test.

Pressure Correction Factor: (To be calculated only if there is a change in the temperature of the test medium.)

Final Pressure = (P1 + Pa) (T2 + 460) - Pa / (T1 + 460)

- Pa = Atmospheric Pressure in psia
P1 = Pressure of Test Medium at End of 30 Minute Reading, psig
T1 = Temperature of " " " " " " " " °F.
T2 = Temperature " " " " " " " " Test, °F.

Calculated Final Pressure: \_\_\_\_\_

Test Made by: [Signature] Approved: \_\_\_\_\_ (Foreman) (Superintendent)

Note: Recording charts of pressure and temperature, if used, are to be attached to the original of this form and kept on file in the division office.

#3

**City of Granville**

---

**From:** "Olson, Curt" <curt.olson@mdu.com>  
**Date:** Tuesday, September 22, 2015 11:55 AM  
**To:** <granville@srt.com>  
**Subject:** psi test

I have replied to Aaron at PSC that at this time we are not able to supply them with the document from 1990 to verify the test. I did mention we could replace the piece of 3" "pink" with 3" yellow, which we have records for. Let me know.

Curt Olson  
District Manager  
Minot, ND  
Office 701-857-6820  
Cell 701-500-0453

12/3/2015

#4

**City of Granville**

---

**From:** "City of Granville" <granville@srt.com>  
**Date:** Friday, October 02, 2015 11:13 AM  
**To:** "Curt Olson" <curt.olson@mdu.com>  
**Attach:** MDU PSI Air Test 2014 leak.pdf  
**Subject:** MDU 2014 PSI test

Curt,

I just visited with Craig this morning on the PSI testing that Cameron signed off on for the 2014 leak in Granville that MDU helped repair. He suggested that I ask for the start pressure to be listed on the form as well as the ending pressure within the testing section of the form. Is it possible to request this for our records?

I will wait to see that updated form and hear back from you.

Thank You,  
Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369

12/3/2015

#5, #6, #7

**City of Granville**

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**From:** "City of Granville" <granville@srt.com>  
**Date:** Friday, November 06, 2015 8:32 AM  
**To:** "Olson, Curt" <curt.olson@mdu.com>  
**Subject:** Re: Granville Pressure Testing

Curt,

I am glad to hear back from you. Can we set a date? I have been trying to get in touch with Pete as well. He came up one morning a few weeks ago and visited out plant location with me but I haven't been able to get back in contact with him to set something up.

Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369

**From:** Olson, Curt  
**Sent:** Thursday, November 05, 2015 2:32 PM  
**To:** City of Granville  
**Subject:** RE: Granville Pressure Testing

We will get there! Did you get the tool from me that I gave Pete?

---

**From:** City of Granville [mailto:granville@srt.com]  
**Sent:** Friday, October 30, 2015 11:31 AM  
**To:** Olson, Curt  
**Subject:** Re: Granville Pressure Testing

\*\*\* This is an EXTERNAL email. Exercise caution. \*\*\*

---

Curt,

Do you have any updates for me. I hadn't heard back from you so I was just checking in on this leak retest and when it can be rescheduled.

Look forward to hearing from you.

Thanks  
Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369

**From:** City of Granville  
**Sent:** Friday, October 23, 2015 12:04 PM

12/3/2015

**To:** Curt Olson  
**Subject:** Fw: Granville Pressure Testing

Curt,

According to the PSC, it sounds like we are going to have to retest that section of main in which leak occurred in 2014. Can you help set up a scheduled date to have this completed? I am going to reach out to you as MDU did the work originally. We can figure out the cost and pay of the testing required later but I would like to confirm that this can still be completed soon in the near future.

I will look forward to hearing back from you.

Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369

**From:** Morman, Aaron A.  
**Sent:** Friday, October 23, 2015 10:59 AM  
**To:** City of Granville ; Reamann, Craig R.  
**Subject:** RE: Granville progress report

In regards to testing of your system, I believe you will have to pressure test the part of your system where the piece of new main was installed in 2014. You should be able to isolate this section of your system to accomplish this. If the contractor (MDU) had the test records of the piece of main that was installed, it would suffice, but it is my understanding that they (MDU) did not find the records to support the pretesting of this particular piece. Anyway, by pressure testing the section where the main repair was done, you will have a valid pressure test record of all of that section.

Aaron Morman

---

**Subject:** Granville progress report

Good morning,

I wanted to touch base with you guys regarding our system and some updates that I have for you. Again, lots has been accomplished and I am feeling much better about knowing the information needed for our system, how it all works, and a little less stress.

#1. We met with the evaluator who visited our plant and is going to be qualifying Paul with some recent classes he has taken and passed as well as testing out all of our reliefs, regulators, and valves. I am waiting to hear back from him on a confirmed date in which he can schedule to come back and officially do these items. I have enclosed drafted test out forms which I created to better help us understand each item and where it is properly located.

#2. We had the valves changed out on top of the tank. It wasn't as easy as just having them changed. The whole manifold was not working so it had to be manufactured which took longer than expected however, as of today it is officially fixed and ready to be filled again.

12/3/2015

#8, #9, #10

**City of Granville**

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**From:** "City of Granville" <granville@srt.com>  
**Date:** Tuesday, November 10, 2015 1:03 PM  
**To:** "Morman, Aaron A." <aarmorman@nd.gov>; "Reamann, Craig R." <creamann@nd.gov>; "Curt Olson" <curt.olson@mdu.com>  
**Subject:** Re: Granville progress report

Hello,

I recently spoke with Gene from MDU who is doing an emergency one call in for the required retesting. He stated that we could either shut down the whole system and test it in entirety or we could have MDU replace the piece of pipe that was originally repaired in which they can't show testing records for. I believe where it stands we will be having MDU replace that piece of pipe instead of turning it all down this time of year especially since school is in session. Gene confirmed that they can do a bypass which would still allow the propane to be supplied adequately to the residential area without affecting the customers.

Hopefully we will have this all completed for you and us by the end of the week. Their plan is to be here on Thursday.

Thank You,  
Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369

**From:** City of Granville  
**Sent:** Tuesday, November 10, 2015 11:50 AM  
**To:** Morman, Aaron A. ; Reamann, Craig R. ; Curt Olson  
**Subject:** Re: Granville progress report

Aaron,

Attached is the 2013 annual valve testing that was completed by the City Operator Taylor Stassens. The valves, regulators, and reliefs were not tested in 2014 with our situation surrounding the change of personnel and unidentified duties.

As far as the shut down process at the time the leak occurred in 2014, I do not have anything that states how the system was turned down. I was not able to be there for the procedure and my former attempts to contact Mr. Stassens have proved to be ineffective. Either way, Curt Olson from MDU reassured me this morning that they are doing a one call today and will be here by the end of the week to address the pressure testing of the system as result of the main repair in 2014.

I will keep you posted, and if MDU does not perform this corrective testing as stated. I do understand that it is the City's priority to get it done no matter what it takes and will be researching other options.

12/3/2015

Thank You,  
Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369

**From:** Morman, Aaron A.  
**Sent:** Tuesday, November 10, 2015 10:15 AM  
**To:** City of Granville ; Reamann, Craig R.  
**Subject:** RE: Granville progress report

Anita, Paul.

In reviewing the findings of your annual records review for calendar year 2014, we have been looking at your system map and your plan and you list valve #12 as your key valve which is a manually operated plug valve located at the storage tank facility. This valve is designed to be used in cases of emergency to close off the supply of propane vapor to the town system. Do you have a record of the testing of valve #12 for 2013 and 2014? If so, we need to see that documentation.

As far as when the repair on 2-12-14 was made, how was the system shut down? Was valve #12 used to isolate the system? Was the sectionalizing valve for that section of the system used to shut off the pressure? Was the line pinched off during the repair? MDU had said they used a piece of pre-tested pipe for the main repair/replacement but do not have documentation of the pressure test for the piece of pipe used for the main repair.

Have you gotten anyone to perform a pressure test of your system? As far as if you are relying on MDU or Subsite Technologies to perform the system pressure test as stated below, you may have to look at another contractor to get this done. It is imperative that a pressure test of your system be done ASAP because the integrity of your system is questionable and you would not want to deal with a complete shutdown of your entire system.

Please get this information to us ASAP.

Regards,  
Aaron Morman

---

**From:** City of Granville [mailto:granville@srt.com]  
**Sent:** Thursday, November 05, 2015 8:39 AM  
**To:** Morman, Aaron A.; Reamann, Craig R.  
**Subject:** Re: Granville progress report

Good morning guys,

I have emailed both MDU and Subsite Technologies twice now and left messages yesterday after I received your email. I am not sure what else I can do on my end if they are not going to respond. Do you have any suggestions to help make this happen?

Thanks  
Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741

12/3/2015

701-728-6369

**From:** Morman, Aaron A.  
**Sent:** Wednesday, November 04, 2015 10:00 AM  
**To:** City of Granville ; Reamann, Craig R.  
**Subject:** RE: Granville progress report

Anita.

I am checking to on the progress of the pressure test of the portion of piping that is addressed below. Has this been done or scheduled?

Let me know as soon as you have this finished.

Thanks.

*Aaron A Morman  
North Dakota PSC  
Gas Pipeline Safety  
Program Manager/Inspector  
Cell phone: 701-220-5779  
Fax: 701-328-2410  
[aarmorman@nd.gov](mailto:aarmorman@nd.gov)*

---

**From:** Morman, Aaron A.  
**Sent:** Friday, October 23, 2015 10:57 AM  
**To:** 'City of Granville'; Reamann, Craig R.  
**Subject:** RE: Granville progress report

In regards to testing of your system, I believe you will have to pressure test the part of your system where the piece of new main was installed in 2014. You should be able to isolate this section of your system to accomplish this. If the contractor (MDU) had the test records of the piece of main that was installed, it would suffice, but it is my understanding that they (MDU) did not find the records to support the pretesting of this particular piece. Anyway, by pressure testing the section where the main repair was done, you will have a valid pressure test record of all of that section.

Aaron Morman

---

**Subject:** Granville progress report

Good morning,

I wanted to touch base with you guys regarding our system and some updates that I have for you. Again, lots has been accomplished and I am feeling much better about knowing the information needed for our system, how it all works, and a little less stress.

#1. We met with the evaluator who visited our plant and is going to be qualifying Paul with some recent classes he has taken and passed as well as testing out all of our reliefs, regulators, and valves. I am waiting to hear back from him on a confirmed date in which he can schedule to come back and officially do these items. I have enclosed drafted test out forms which I created to better help us

12/3/2015

understand each item and where it is properly located.

#2. We had the valves changed out on top of the tank. It wasn't as easy as just having them changed. The whole manifold was not working so it had to be manufactured which took longer than expected however, as of today it is officially fixed and ready to be filled again.

#3. We have labeled off all the primary parts at the plant.

One other pending item I have question for is the retest for the Leak that was performed by MDU. Are we still going to need to address that item? If so, I would imagine we would want to do it as quickly as possible since it might be getting cold soon. As always, if you have any questions or suggestions for me, please let me know

Thank You,  
Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369

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12/3/2015

#12

**City of Granville**

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**From:** "City of Granville" <granville@srt.com>  
**Date:** Friday, November 13, 2015 12:33 PM  
**To:** "Morman, Aaron A." <aarmorman@nd.gov>  
**Cc:** "Reamann, Craig R." <creamann@nd.gov>  
**Subject:** Re: Granville Work - Completed Reports

Thank You for the clarification. I can send copies of MDU OQ when I get them. They have been requested. I also made a couple of other contacts for the annual valve testing as relying on the contact from Subsite is not seeming to be the answer. Hopefully we will have that completed here soon as well and then maybe I can relax a bit.

Hope you both have a great weekend.

Anita Trana  
 Granville City Auditor  
 PO Box 39  
 Granville, ND 58741  
 701-728-6369

**From:** Morman, Aaron A.  
**Sent:** Friday, November 13, 2015 12:08 PM  
**To:** City of Granville  
**Cc:** Reamann, Craig R.  
**Subject:** RE: Granville Work - Completed Reports

Just to clarify in case I wasn't clear enough, the pressure test will be sufficient to keep your system operating. This is what we needed to see.  
 Thanks for your rapid response earlier today.

*Aaron A Morman  
 North Dakota PSC  
 Gas Pipeline Safety  
 Program Manager/Inspector  
 Cell phone: 701-220-5779  
 Fax: 701-328-2410  
 aarmorman@nd.gov*

---

**From:** Morman, Aaron A.  
**Sent:** Friday, November 13, 2015 11:42 AM  
**To:** 'City of Granville'; Reamann, Craig R.  
**Subject:** RE: Granville Work - Completed Reports

Anita.

Thanks for the information. It appears the test records are sufficient. Do you have the Operator Qualification

12/3/2015

records for the individuals who performed the repair, replacement, and pressure test of the system?  
Regards,

Aaron Morman  
ND PSC

---

**From:** City of Granville [<mailto:granville@srt.com>]  
**Sent:** Friday, November 13, 2015 11:26 AM  
**To:** Morman, Aaron A.; Reamann, Craig R.  
**Subject:** Fw: Granville Work - Completed Reports

Good morning,

Well, the City had MDU come out yesterday (November 12, 2015) and replace the pipe that was originally repaired in 2014 due to the integrity of the system being questionable as MDU could not provide paperwork for that piece they originally brought the City nor did their technician's pressure testing paperwork meet the required standards.

I hope this is what the Public Service Commission is needing to show that Granville's LP system is in working compliance.

Please let me know immediately if there are any concerns with MDU's provided paperwork.

Thank You,  
Anita Trana  
Granville City Auditor  
PO Box 39  
Granville, ND 58741  
701-728-6369

**From:** Roness, Dawn  
**Sent:** Friday, November 13, 2015 11:04 AM  
**To:** [granville@srt.com](mailto:granville@srt.com)  
**Cc:** Olson, Curt  
**Subject:** Granville Work - Completed Reports

Anita,

Attached please find the completed reports for the work that MDU performed for Granville on November 12, 2015. Please let me know if you need anything else.

Thanks,  
Dawn Roness  
Field Operations Supervisor  
701 857-6818

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