

**Ohio Rural Natural Gas
Co-Op**

7001 Center Street
Mentor, OH 44060
440-255-5198



OQ TEST SCORE CONFIRMATION LETTER

Employer Confirmation of Student(s)'s
Abilities to do the tasks listed below

Module	Date	Evaluator	Method	Score	Circle YES if OK to do Task
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Please review and authorize the above test scores for your employee(s) so certificates may be issued.
This form indicates that the necessary Knowledge and Skills have been evaluated by UTI
UTI is requesting your confirmation of the Student Ability to perform the job on site.

Please mark either Y (yes) or N (no) for each person and each task.

FAX: 614-482-8070

OR

MAIL: Utility Technologies International
4700 Homer Ohio Lane
Groveport, OH 43125

Please check SPELLING of names and company names for printing of certificates and cards.

Having knowledge of these person's training, work experience, job performance and the qualification test results shown above, I authorize UTI to issue a qualification certificate for the tasks as indicated. Failure to return this form in a timely manner could result in the certification being placed on hold.

Authorized Signature: _____

Print Name: _____

Date: _____

List of Test Modules:

- F1F2 - Fusion and Mechanical Joining
- F2 - Mechanical Joining of Polyethylene Pipe
- G1 - Excavation Backfilling
- H1 - Install meter regulator sets
- H2 - Install service lines
- I-1 - Controlling Corrosion: Installing Test Leads Elec. Isolation, Monitoring Atmospheric Corrosion, Attach Anodes, Apply/Repair Coatings
- I-1(1-4)-Monitoring Corrosion-Electrical Methods
- I-1(5-8)-Monitoring Corrosion-Inspecting Rectifiers/Bonds
- I-1(a) - Evaluation and Application of Corrosion Control
- I-1(b) - Reading Test Stations, Eval. App. of Above Ground Corrosion Control
- I-1(c) - Evaluation and Application of Above Ground Corrosion Control
- I-1(d) - Monitoring Corrosion Control
- L-1/L-1(a) - Tapping and Bagging Pipelines
- L-1(b) - Tapping Pipelines
- L-1(c) - Tapping Pipeline w. Self Tapping Tees
- L2/L2(S) - Purge Gas Lines /Small
- L-2(a) - Purge Service Lines
- L-3 - Establish/ Maintain Odorant
- L-3(s) - Monitor Odorant Levels

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		Module	Date	Evaluator	Method	Score	Circle YES if OK to do Task
Courtney, Robert A.	GZ21-015294-44	CI-15	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CL-1	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CL-1b	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CL-3	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CL-3a	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CL-5	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CL-6	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-2	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
Lette, Tyler E.	TW88-1B305F-83	CI-15	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CL-1	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CL-1b	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CL-3	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CL-3a	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CL-5	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CL-6	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-2	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
McCormick, Ryan	ZG37-23A060-86	CI-15	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CL-1	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CL-1b	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CL-3	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CL-3a	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CL-5	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CL-6	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-2	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
Papp, George M.	7096-08C12F-08	CI-15	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CL-1	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CL-1b	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CL-3	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CL-3a	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CL-5	6/21/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
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L-1(b) - Tapping Pipelines
L-1(c) - Tapping Pipeline w. Self Tapping Tees
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Lette, Tyler E.	TW88-1B305F-83	CF-1	4/27/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
		CF-2	4/27/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
		CF-7	4/27/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
McCormick, Jack	D552-2701A2-33	CF-1	4/27/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
		CF-2	4/27/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
		CF-7	4/27/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
McCormick, Ryan	ZG37-23A060-66	CF-1	4/27/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
		CF-2	4/27/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
		CF-7	4/27/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
Papp, George M.	7096-08C12F-08	CF-1	4/27/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
		CF-2	4/27/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
		CF-7	4/27/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
Sebring, Ed K.	6071-2D31E8-44	CF-1	4/27/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
		CF-2	4/27/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
		CF-7	4/27/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
Stanish, David	M257-24726C-18	CF-1	4/27/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
		CF-2	4/27/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
		CF-7	4/27/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No

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Authorized Signature: Darryl L. Knight

Print Name: DARRYL L. KNIGHT

Date: 5/5/16

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Lette, Tyler E.	TW88-1B305F-83	CF-6	4/28/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
		CL-1a	4/28/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
McCormick, Jack	D552-2701A2-33	CF-6	4/28/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
		CL-1a	4/28/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
McCormick, Ryan	ZG37-23A060-66	CF-6	4/28/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
		CL-1a	4/28/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
Papp, George M.	7096-08C12F-08	CF-6	4/28/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
		CL-1a	4/28/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
Sebring, Ed K.	6071-2D31E8-44	CF-6	4/28/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
		CL-1a	4/28/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
Stanish, David	M257-24726C-18	CF-6	4/28/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No
		CL-1a	4/28/2016	Jeff Wolfe	E, O	Pass	<u>Yes</u>	or No

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Authorized Signature: _____

Print Name: _____

DARRELL L. KNIGHT

Date: 5/5/16

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		Module	Date	Evaluator	Method	Score	Circle YES If OK to do Task
Courtney, Robert A.	GZ21-015294-44	CM-1	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-10	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-12	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-4	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-5	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-5a	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-5b	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-8	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
Lette, Tyler E.	TW88-1B305F-83	CM-1	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-10	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-12	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-4	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-5	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-5a	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-5b	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-8	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
McCormick, Ryan	ZG37-23A060-66	CM-1	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-10	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
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		CM-5	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-5a	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-5b	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-8	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
Papp, George M.	7096-08C12F-08	CM-1	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-10	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-12	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
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		CM-5	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-5a	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-5b	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-8	6/22/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No

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Module	Date	Evaluator	Method	Score	Circle YES if OK to do Task
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Authorized Signature: Darryl L. Knight

Print Name: DARRYL L. KNIGHT

Date: 7/2/16

List of Test Modules:

- F1F2 - Fusion and Mechanical Joining
- F2 - Mechanical Joining of Polyethylene Pipe
- G1 - Excavation Backfilling
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- L-1/L-1(a) - Tapping and Bagging Pipelines
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- L-1(c) - Tapping Pipeline w. Self Tapping Tees
- L-2/L-2(S) - Purge Gas Lines /Small
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Courtney, Robert A.	GZ21-015294-44	CM-14	6/23/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-16	6/23/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-18	6/23/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-19	6/23/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-20	6/23/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CO-1	6/23/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
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		CO-1	6/23/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
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		CM-16	6/23/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-18	6/23/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-19	6/23/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CM-20	6/23/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CO-1	6/23/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No
		CO-2	6/23/2016	Ted Ressler	E, O	Pass	<u>Yes</u> or No

*Completed
w/ 6/13 class*

*WLD
6/29/16*

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- L-1/L-1(a) - Tapping and Bagging Pipelines
- L-1(b) - Tapping Pipelines
- L-1(c) - Tapping Pipeline w. Self Tapping Tees
- L2/L2(S) - Purge Gas Lines /Small
- L-2(a) - Purge Service Lines
- L-3 - Establish/ Maintain Odorant
- L-3(s)- Monitor Odorant Levels

D.O.T. FUSION / MECHANICAL QUALIFICATION

N314-0B7373-93

Unique ID Number

Thomas J. Rowland

Name

Big Oats (Great Plains)

Company Name



This card certifies that this individual has been tested and qualified according to the requirements of D.O.T. 48CFR Part 192 and the applicable tests identified on the back of the card.



API 1104 WELDER QUALIFICATION

Welder ID: 6000000

Name: **Thomas Rowland**

Company: **Big Oats Oil Field Supply**

Issue Date: **5-16-06**

Issued By: **Steve Cremerman**

This card certifies that the above welder has been tested and qualified according to the requirements of DOT 49 CFR Part 192.227 and Part 192.229 and applicable UTi welding procedures. In addition, the welder has reviewed abnormal operating conditions and how to properly react.

To maintain qualification, welder is required to perform welds, for each process qualified, that are tested and found acceptable under sections 6 or 9 of API 1104 at least twice each calendar year, not to exceed 72 months.



API 1104 WELDER QUALIFICATION

Welder ID:

60000

Name: **Tom Rowland**

Company: **Big Oats Oil Field Supply**

Issue Date: **5-16-06**

Issued By: **Steve Cremerman**

This card certifies that the above welder has been tested and qualified according to the requirements of DOT 49 CFR Part 192.227 and Part 192.229 and applicable UTi welding procedures. In addition, the welder has reviewed abnormal operating conditions and how to properly react.

To maintain qualification, welder is required to perform welds, for each process qualified, that are tested and found acceptable under sections 6 or 9 of API 1104 at least twice each calendar year, not to exceed 72 months.



Utility Technologies International Corp.
4700 Homer Ohio Lane
Groveport, OH 43125 (614) 482-6080

Name: Thomas J. Rowland

Fusion / Mechanical Qualification Date: 05/11/15

<input checked="" type="checkbox"/> Manual Butt Fusion	<input checked="" type="checkbox"/> PE 2406	<input checked="" type="checkbox"/> PE 3408
<input checked="" type="checkbox"/> Hydraulic Butt Fusion	<input checked="" type="checkbox"/> PE 2406	<input checked="" type="checkbox"/> PE 3408
<input checked="" type="checkbox"/> Socket Fusion	<input checked="" type="checkbox"/> PE 2406	<input checked="" type="checkbox"/> PE 3408
<input checked="" type="checkbox"/> Electrofusion socket and Tee		
<input checked="" type="checkbox"/> Mechanical - Bolted Compression	<input checked="" type="checkbox"/> Self Taping Tee	
<input checked="" type="checkbox"/> Mechanical - Boltless Compression		
<input checked="" type="checkbox"/> Mechanical - Stab	Other: Saddle 5/11/15	

Dates above expire one year from the qualification date. The person listed above has been successfully tested and evaluated on knowledge, skills and ability.

CARDHOLDER IS QUALIFIED TO WELD STEEL PIPE AS FOLLOWS:

Process: SMAW
Position: All Positions
Diameter Range: All Diameters
Wall Thickness Range: All Wall Thickness
Maximum Grade: X60
Further Qualification:

WELDER REQUALIFICATION RECORD		
Welding Inspector	Date	Type of Test
John Lucas	8-18-15	Bi-Annual Requalification

CARDHOLDER IS QUALIFIED TO WELD STEEL PIPE AS FOLLOWS:

Process: SMAW
Position: All Positions
Diameter Range: All Diameters
Wall Thickness Range: All Wall Thickness
Maximum Grade: X60
Further Qualification:

WELDER REQUALIFICATION RECORD		
Welding Inspector	Date	Type of Test
John Lucas	3-23-16	6mm Requalification

Name/UID: Thomas J. Rowland / N314-0B7373-93

NI Source Specific Modules / Date Qualified:

NI E-1(a):	<u>N/A</u>	NI I-1(d):	<u>N/A</u>	NI M-3:	<u>N/A</u>
NI F-1(a):	<u>02/02/11</u>	NI L-1(a):	<u>N/A</u>	NI M-7:	<u>N/A</u>
NI F-2:	<u>N/A</u>	NI L-1(b):	<u>N/A</u>	NI M-8:	<u>N/A</u>
NI H-1:	<u>N/A</u>	NI L-1(c):	<u>05/17/11</u>	NI M-9:	<u>N/A</u>
NI H-2:	<u>N/A</u>	NI L-2NoR:	<u>04/14/15</u>	NI M-10:	<u>N/A</u>
NI H-2(a):	<u>N/A</u>	NI L-2(a):	<u>N/A</u>	NI M-10(a):	<u>N/A</u>
NI I-1(a):	<u>N/A</u>	NI L-3(a):	<u>N/A</u>	NI G-1:	<u>N/A</u>
NI I-1(b):	<u>N/A</u>	NI M-1(a):	<u>N/A</u>	NI G-2:	<u>N/A</u>
NI I-1(c):	<u>N/A</u>	NI M-2:	<u>N/A</u>	NI G-3:	<u>N/A</u>
				Service Line Installer:	<u>N/A</u>

Task / Date Qualified:

CF-1:	<u>N/A</u>	CI-5:	<u>N/A</u>	COM 1.3:	
CF-2:	<u>N/A</u>	CI-6:	<u>N/A</u>	M-1:	<u>N/A</u>
F-1a:	<u>02/02/11</u>	CI-7:	<u>N/A</u>	M-2:	<u>N/A</u>
F-2:	<u>N/A</u>	CI-8:	<u>N/A</u>	M-3:	<u>04/14/15</u>
G-1:	<u>04/14/15</u>	CI-9:	<u>N/A</u>	M-4:	<u>N/A</u>
H-1:	<u>N/A</u>	CI-10:	<u>N/A</u>	M-5:	<u>N/A</u>
H-2:	<u>04/14/15</u>	CI-11:	<u>N/A</u>	M-5.1:	<u>N/A</u>
I-1c:	<u>05/18/11</u>	CI-12:	<u>N/A</u>	M-6:	<u>N/A</u>
CI-1:	<u>04/16/15</u>	CI-13:	<u>N/A</u>	M-7FR:	<u>04/15/15</u>
CI-2:	<u>N/A</u>	L-1:	<u>N/A</u>	M-8:	<u>05/23/11</u>
CI-3:	<u>N/A</u>	L-3:	<u>N/A</u>	M-9:	<u>N/A</u>
CI-4:	<u>N/A</u>	L-3(a):	<u>N/A</u>	M-10:	<u>N/A</u>

Utility Technologies International Corp.
4700 Homer Ohio Lane
Groveport, OH 43125 (614) 482-8080

N314-0B7373-93

Unique ID Number

Thomas J. Rowland

Name

Big Oats (Great Plains)

Company Name



This card certifies that this individual has been tested and qualified according to the requirements of D.O.T. 49CFR Part 192 and the applicable tasks identified on the back of the card.
To confirm this individual's qualification please call 614-482-8080

Appendix D Qualification Status Update Record – Compliance Series

Employee Name: THOMAS ROWLAND
 Employee ID Number: UTI - VERIFORCE
 Employee Job Title or Description: WELDER

Employee's Supervisor: JOHN CESSNA
 Employee's Reporting Location: DARRYL L. KNIGHT

Employee's Employer: ☐ Pipeline Operating Company
☒ Contractor Employee

Contractor Name BIG OATS OILFIELD SUPPLY
38700 PELTON RD. WILLOUGHBY OH 44094
 Date of This Qualification Status Report 5/18/16 - 6/17/16

The employee identified above is currently qualified to perform the following identified covered tasks checked below:

✓ (check all covered tasks for which the employee is qualified)

✓	CE-1	Weld on Steel Pipelines, 49 CFR 192.225, 192.231, 192.235, 192.245
✓	CE-2	Visually Inspect Pipe Welds, 49 CFR 192.241, 192.243
✓	CE-3	Perform Non-Destructive Tests on Steel Welds, 49 CFR 192.241, 192.243
✓	CF-1	Join Plastic Pipe with Heat Fusion <u>VF-# 2080P</u>
✓	CF-1.1	Join Plastic Pipe with Butt Fusion, 49 CFR 192.123, 192.273, 192.281, 192.285, 192.287 <u>VF-# 2110P</u>
-	CF-1.2	Join Plastic Pipe with Socket Fusion, 49 CFR 192.123, 192.273, 192.281, 192.285, 192.287 <u>VF-# 2080P</u>
-	CF-1.3	Join Plastic Pipe with Saddle Fusion, 49 CFR 192.123, 192.273, 192.281, 192.285, 192.287
✓	CF-1.4	Join Plastic Pipe with Electrofusion, 49 CFR 192.123, 192.273, 192.281, 192.285, 192.287 <u>VF-# 2100P</u>
✓	CF-2	Join Plastic Pipe with Mechanical Fittings <u>VF-# 2090P</u>
	CF-2.1	Join Plastic Pipe with Threaded Nut Compression End Fittings, 49 CFR 192.123, 192.273, 192.281, 192.285, 192.287
✓	CF-2.2	Join Plastic Pipe with Stab-Type Mechanical Fittings, 49 CFR 192.123, 192.273, 192.281, 192.285, 192.287 <u>VF-# 2190P</u>
-	CF-2.3	Join Plastic Pipe with Mechanical Compression Fittings, 49 CFR 192.123, 192.273, 192.281, 192.285, 192.287
-	CF-3	Join Copper Pipe for Gas Distribution, 49 CFR 192.279
✓	CF-4	Join Plastic Pipe with Solvent Cement, 49 CFR 192.273, 192.281, 192.283, 192.285, 192.287, 192.311 <u>VF-# 2180P</u>

✓	CI-10	Inspect and Monitor Exposed Piping for Evidence of Atmospheric Corrosion, 49 CFR 192.479, 192.481 VF-#4170P
✓	CI-11	Install Sacrificial Anodes and Test Stations, 49 CFR 192.465, 192.469 VF-#4130P
✓	CI-12	Measure the Extent of Corrosion on Pipeline Facilities, 49 CFR 192.459, 192.475, 192.477, 192.481 VF-#4180P
✓	CI-13	Identify Procedures Basic to Inspecting, Applying, and Repairing Pipeline Coatings, 49 CFR 192.459, 192.461 VF-#4270P
—	CI-14	Obtain and Shipping Gas Samples, 49 CFR 192.475, 192.477
—	CI-15	Troubleshoot In-Service Cathodic Protection Systems, 49 CFR 192.463
—	CK-1	Update a Pipeline, 49 CFR 192.105, 192.121, 192.553, 192.555, 192.557, 192.619, 192.621, 192.623
✓	CL-1	Tap Pipelines Under Pressure, 49 CFR 192.151, 192.627 VF-#6110P
—	CL-1a	Hot Tapping Pipelines Using Self-Tapping Tees, 49 CFR 192.627
—	CL-1b	Bagging and Stopping Low Pressure Pipe with Bag, Stopper, or Stopple, 49 CFR 192.151, 192.627
✓	CL-2	Purge Pipelines (Small and Large Diameter), 49 CFR 192.629 VF-#6130P
—	CL-3	Odorizer Inspection, Testing, and Preventive/Corrective Maintenance, 49 CFR 192.625
—	CL-3a	Monitor Odorant Levels, 49 CFR 192.625
—	CL-4	Monitor and Regulate the Flow and Pressure of Gas from Remote Locations, 49 CFR 192.201, 192.619, 192.621, 192.623, 192.631, 192.741
✓	CL-5	Perform Hot Tapping Operations on Plastic Pipe, 49 CFR 192.151(a), 192.627 VF-#6120P
—	CL-6	Inspect, Test, and Maintain Actuators, 49 CFR 192.179, 192.181, 192.745, 192.747
—	CL-7	Inspect, Test, and Maintain Programmable Logic Controllers, 49 CFR 192.605B, 10(iii), 192.739
✓	CM-1	Perform Patrol and Leakage Surveys on Gas Pipeline Facilities, 49 CFR 192.5, 192.613, 192.705, 192.706, 192.721, 192.723 VF-#4360P
✓	CM-2	Locate and Mark Underground Facilities, 49 CFR 192.614, 192.707 VF-#6060P
✓	CM-3	Pressure Testing Gas Pipelines, 49 CFR 192.503, 192.505, 192.507, 192.509, 192.511, 192.513, 192.725 VF-#6020P
—	CM-4	Inspect and Test Pressure Limiting Stations, Relief Devices, and Pressure Regulating Devices, 49 CFR 192.201, 192.731, 192.739, 192.743, 192.749, 192.751
✓	CM-5	Inspect, Service, and Operate Line Valves, 49 CFR 192.179, 192.181, 192.745, 192.747 VF-#0070P
—	CM-5a	Inspect Emergency Valves, 49 CFR 192.745, 192.747, 192.803
—	CM-5b	Valve Corrective Maintenance, 49 CFR 192.747
—	CM-6	Monitor Compressor Station Gas Leak Detection Equipment, 49 CFR 192.735, 192.736
✓	CM-7	Prevent Accidental Ignition, 49 CFR 192.751 VF-#SAFETY CULTURE
✓	CM-8	Make Field Repairs on Gas Pipelines, 49 CFR 192.245, 192.307, 192.309, 192.311, 192.703, 192.711, 192.713, 192.715, 192.717

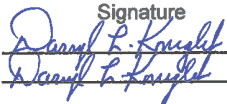
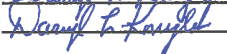
VF-#7060P 7220P
7050P 7190P

-	CF-5	Visually Inspect Polyethylene Pipe Joints for Indicators of Proper Construction/Assembly, 49 CFR 192.123, 192.273, 192.281, 192.283, 192.285, 192.287
/	CF-6	Install Tubing and Fittings for Instrumentation, Control, and Sampling, 49 CFR 192.203, 192.279 VF-# 2170P
✓	CF-7	Join Pipe with Flange Assembly, 49 CFR 192.147 VF-# 2150P
✓	CG-1	Verify Excavating and Backfilling Operations that Minimize Excavation Damage to Pipeline Facilities, 49 CFR 192.307, 192.317, 192.319, 192.321, 192.325, 192.327, 192.361, 192.461, 192.614 VF-# 6070P
-	CG-2	Identify Basic Installation Methods for Mains and Transmission Pipelines, 49 CFR 192.307, 192.313, 192.315, 192.317, 192.319, 192.321, 192.323, 192.325, 192.327, 192.707
-	CG-3	Install Aboveground Pipelines, 49 CFR 192.161, 192.307, 192.317, 192.479, 192.481, 192.707
✓	CG-4	Install Mains and Transmission Pipelines Using Trenchless Methods, 49 CFR 192.307, 192.321, 192.325, 192.327 VF-# 3310P, 3320P
-	CG-5	Moving In-Service Pipelines, 49 CFR 192.319, 192.321, 192.323, 192.325, 192.327, 192.459, 192.605, 192.614, 192.615, 192.707
✓	CH-1	Install Customer Gas Meter and Regulator Sets, 49 CFR 192.353, 192.355, 192.357, 192.359 VF-# 3020P
-	CH-2	Install Customer Gas Service Lines, 49 CFR 192.151, 192.361, 192.363, 192.365, 192.367, 192.369, 192.373, 192.375, 192.377, 192.379, 192.381
-	CH-3	Deactivate Gas Metering Services, 49 CFR 192.727
-	CH-4	Install Residential Customer Service Line Valves, 49 CFR 192.363, 192.365, 192.381, 192.383
-	CH-5	Maintenance of Service Valves Upstream of Customer Meter (in development), 49 CFR 192.363, 192.365
✓	CI-1	Perform Pipe-to-Soil Potential Surveys on Effectively Coated Buried or Submerged Pipelines, 49 CFR 192.463
✓	CI-2	Determine Areas of Active Corrosion Using Close Interval Survey Methods, 49 CFR 192.453, 192.465 VF-# 4170P
-	CI-3	Measure Soil Resistivity, 49 CFR 192.453, 192.465
✓	CI-4	Inspect the External Condition of Exposed Buried Metal Piping to Determine if Repair or Replacement is Necessary, 49 CFR 192.459, 192.461(a), 192.483, 192.485, 192.487, 192.489 VF-# 4010P
✓	CI-5	Inspect and Maintain Rectifiers, 49 CFR 192.465 VF-# 4080P
-	CI-6	Inspect for the Effects of Interference Current, 49 CFR 192.465, 192.473
✓	CI-7	Install Test Leads to Monitor and Control External Corrosion, 49 CFR 192.465, 192.469, 192.471 VF-# 4120P
✓	CI-8	Install and Test Insulation to Control External Corrosion by Electrical Isolation, 49 CFR 192.467 VF-# 4110P
✓	CI-9	Inspect for Evidence of Internal Corrosion, 49 CFR 192.475, 192.477

VF-#4140P

—	CM-9	Repair and Protect Cast Iron Pipe, 49 CFR 192.275, 192.489, 192.753, 192.755
	CM-10	Abandon or Deactivate Gas Pipeline Facilities, 49 CFR 192.727
✓	CM-11	Recognize and React to Generic Abnormal Operating Conditions, 49 CFR 192.751 VF-#2010P
—	CM-12	Launch and Receive Pipeline Pigs, 49 CFR 192.150
✓	CM-13	Investigate Reported Gas Leaks and Odors in Buildings VF-#6500P
—	CM-14	Inspect Vault Conditions, 49 CFR 192.749, 192.751
—	CM-15	Operate and Maintain Compressor Station Components, 49 CFR 192.167, 192.169, 192.171, 192.173, 192.199, 192.201, 192.605(a)(b)(6)(7), 192.731, 192.743
—	CM-16	Inspect, Test, and Maintain Sensing Devices, 49 CFR 192.739, 192.741, 192.743
✓	CM-17	Squeeze-Off Steel Pipe, 49 CFR 192.615 VF-#7640P
—	CM-18	Station Emergency Shut Down System: Inspection, Testing, and Corrective Maintenance, 49 CFR 192.167, 192.171, 192.731, 192.736
✓	CM-19	Installing and Maintaining Customer Pressure Regulating, Pressure Limiting, and Pressure Relief Devices: Large Commercial and Industrial, 49 CFR 192.199, 192.743 VF-#3040P
—	CM-20	Reciprocating Compressor Inspection, Testing, and Corrective Maintenance, 49 CFR 192.731
✓	CM-23	Measure and Characterize Mechanical Damage on Installed Pipe and Components, 49 CFR 192.307, 192.309 VF-#430P
—	CO-1	Conduct Indirect Pipe Inspections, 49 CFR 192.925, 192.947
—	CO-2	Conduct Direct Pipe Examinations, 49 CFR 192.927, 192.947

Approved by:

Signature	Title	Date
	EXECUTIVE DIRECTOR	5/18/16
	" "	6/17/16
_____	_____	_____
_____	_____	_____

Route Copies to:

Name	Title	Location
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Dana Rymarczyk

From: Andrea Magana <andrea.magana@veriforce.com>
Sent: Friday, June 17, 2016 10:04 AM
To: pia1@big-oats.com
Subject: Records for Thomas Rowland

Hi Dana,

Please see the current CCTs for Thomas:

Completion Date	TRCID	Candidate Name	Status
5/25/2016	401	Thomas Rowland	Pass
5/25/2016	502	Thomas Rowland	Pass
5/25/2016	607	Thomas Rowland	Pass
5/25/2016	619	Thomas Rowland	Pass

Thanks!

Andrea Magana
Operator Liaison

Veriforce, LLC
19221 I-45 South, Suite 200 | Shenandoah, TX 77385
Phone: 281.916.1618 | Toll Free: 800.426.1604
andrea.magana@veriforce.com www.veriforce.com



Completed	Veriforce - CCT 402 Apply Approved Coating to Above Ground Piping w/Exam	Veriforce LLC	402OP	3/28/2016	3/28/2019
Completed	Veriforce - CCT 202 Monitoring of Welding Process w/Exam	Veriforce LLC	202OP	3/28/2016	3/28/2019
Completed	Veriforce - CCT 304 Installing Customer Pressure Regulating, Limiting, and Relief Device - Large Commercial & Industrial w/Exam	Veriforce LLC	304OP	3/28/2016	3/28/2019
Completed	Veriforce - CCT 421 Measurement of Depth of Pitting with Pit Gage w/Exam	Veriforce LLC	421OP	3/28/2016	3/28/2019
Completed	Veriforce - CCT 408 Inspect Cathodic Protection Rectifier w/Exam	Veriforce LLC	408OP	3/28/2016	3/28/2019
Completed	Veriforce - CCT 331 Installation of Plastic Pipe in a Bore w/ Exam	Veriforce LLC	331OP	3/25/2016	3/25/2021
Completed	Veriforce - CCT 332 Installation of Plastic Pipe by Plowing (Pull-In/Planting) w/Exam	Veriforce LLC	332OP	3/25/2016	3/25/2019
Completed	Veriforce - CCT 211 Perform Plastic Fusion Inspection w/Exam	Veriforce LLC	211OP	3/25/2016	3/25/2019
Completed	Veriforce - CCT 405 Protection of Coatings From Above Ground Structures w/Exam	Veriforce LLC	405OP	3/25/2016	3/25/2019
Completed	Veriforce - CCT 001 Provide Security for Pipeline Facilities w/Exam	Veriforce LLC	001OP	3/25/2016	3/25/2019
Completed	Veriforce - CCT 404 Protection of Coatings From Backfilling and From Below Ground Support w/Exam	Veriforce LLC	404OP	3/25/2016	3/25/2019
Completed	Veriforce - CCT 006 Inspection of Breakout Tanks w/ Exam	Veriforce LLC	006OP	3/24/2016	3/24/2019
Completed	Veriforce - CCT 303 Installing Customer Meters: Large Commercial and Industrial w/ Exam	Veriforce LLC	303OP	3/24/2016	3/24/2019
Completed	Veriforce - CCT 414 Inspect for Internal Corrosion Whenever Pipe is Removed w/Exam	Veriforce LLC	414OP	3/24/2016	3/24/2019
Completed	Veriforce - CCT 435 Measure and Identify Mechanical Damage on Installed Pipe and Components w/Exam	Veriforce LLC	435OP	3/24/2016	3/24/2019
Completed	Veriforce - CCT 401 Examination of Buried Pipe When Exposed w/Exam	Veriforce LLC	401OP	3/24/2016	3/24/2019
Completed	Veriforce - CCT 427 Inspection of Above or Below Ground Coatings w/Exam	Veriforce LLC	427OP	3/24/2016	3/24/2019
Completed	Veriforce - CCT 214 Joining of Metal Pipe - Threaded Connections w/Exam	Veriforce LLC	214OP	3/24/2016	3/24/2019
Completed	Veriforce - CCT 213 Joining of Metal Pipe - Threaded and Flanged Connections w/Exam	Veriforce LLC	213OP	3/24/2016	3/24/2019
Completed	Veriforce - CCT 209 Plastic Pipe Joining: Mechanical Joining w/Exam	Veriforce LLC	209OP	3/23/2016	3/23/2017
Completed	Veriforce - CCT 330 Installation of Plastic Pipe in a Ditch w/ Exam	Veriforce LLC	330OP	3/23/2016	3/23/2019

Completed	Veriforce - CCT 484 Apply Approved Coatings by Wrap Application w/ Exam	Veriforce LLC	484OP	4/8/2016	4/8/2019
Completed	Veriforce - CCT 201 Abnormal Operating Conditions Related to Welding on Pipelines w/ Exam	Veriforce LLC	201OP	4/8/2016	4/8/2019
Completed	Veriforce - CCT 426 Inspect Pipe Coating with Holiday Detector w/Exam	Veriforce LLC	426OP	4/7/2016	4/7/2019
Completed	Veriforce - CCT 204 Non-Destructive Testing (Dye Penetrant) w/Acknowledgement	Veriforce LLC	204OP	4/7/2016	4/7/2019
Completed	Veriforce - CCT 204 Non-Destructive Testing (Dye Penetrant) w/Acknowledgement	Veriforce LLC	204OP	4/7/2016	4/7/2019
Completed	Veriforce - CCT 500 Rights-Of-Way (ROW) Observation (Identifying Foreign Facilities) w/Exam	Veriforce LLC	900OP	4/7/2016	4/7/2019
Completed	Veriforce - CCT 205 Non-Destructive Testing (Mag Particle) w/Acknowledgement	Veriforce LLC	205OP	4/7/2016	4/7/2019
Completed	Veriforce - CCT 205 Non-Destructive Testing (Mag Particle) w/Acknowledgement	Veriforce LLC	205OP	4/7/2016	4/7/2019
Completed	Veriforce - CCT 206 Non-Destructive Testing (Ultrasonic) w/Acknowledgement	Veriforce LLC	206OP	4/7/2016	4/7/2019
Completed	Veriforce - CCT 206 Non-Destructive Testing (Ultrasonic) w/Acknowledgement	Veriforce LLC	206OP	4/7/2016	4/7/2019
Completed	Veriforce - CCT 207 Non-Destructive Testing (X-Ray) w/Acknowledgement	Veriforce LLC	207OP	4/7/2016	4/7/2019
Completed	Veriforce - CCT 207 Non-Destructive Testing (X-Ray) w/Acknowledgement	Veriforce LLC	207OP	4/7/2016	4/7/2019
Completed	Veriforce - CCT 407 Perform Cathodic Protection Survey w/Exam	Veriforce LLC	407OP	4/7/2016	4/7/2019
Completed	Veriforce - CCT 411 Inspect/Test to Assure Electrical Isolation is Adequate w/Exam	Veriforce LLC	411OP	4/7/2016	4/7/2019
Completed	Veriforce - CCT 410 Clear Shorted Casing w/ Exam	Veriforce LLC	410OP	4/5/2016	4/5/2019
Completed	Veriforce - CCT 406 Conduct Test to Determine Cathodic Protection Current Requirements w/Exam	Veriforce LLC	406OP	4/5/2016	4/5/2019
Completed	Veriforce - CCT 415 Monitoring for Internal Corrosion with Probes and Coupons w/Exam	Veriforce LLC	415OP	4/5/2016	4/5/2019
Completed	Veriforce - CCT 412 Install CP Leads on Pipeline Using Exothermic Weld w/Exam	Veriforce LLC	412OP	4/5/2016	4/5/2019
Completed	Veriforce - CCT 701 Patrolling Pipeline and Leakage Survey Without Instrument w/Exam	Veriforce LLC	701OP	3/31/2016	3/31/2019
Completed	Veriforce - CCT 703 Placing/Maintaining Line Markers w/Exam	Veriforce LLC	703OP	3/31/2016	3/31/2019
Completed	Veriforce - CCT 203 Visual Inspection of Welds not Non-Destructively Tested w/Exam	Veriforce LLC	203OP	3/31/2016	3/31/2019
Completed	Veriforce - CCT 417 Atmospheric Corrosion Monitoring w/Exam	Veriforce LLC	417OP	3/30/2016	3/30/2019

Completion Status Title		RowlandThomas CBP			Expiration
		Company	ID	Date	
Completed	Veriforce - CCT 436 Perform Close Interval Survey w/ Exam	Veriforce LLC	436OP	4/27/2016	4/27/2019
Completed	Veriforce - CCT 040 Isolation of Pipe with Mud Plug w/ Exam	Veriforce LLC	040OP	4/27/2016	4/27/2019
Completed	Veriforce - CCT 650 Inside Gas Leak Investigation w/ Exam	Veriforce LLC	650OP	4/26/2016	4/26/2019
Completed	Veriforce - CCT 434 Visual Inspection of Installed Pipe and Components for Mechanical Damage w/ Exam	Veriforce LLC	434OP	4/12/2016	4/12/2019
Completed	Veriforce - CCT 608 Damage Prevention for Blasting Near a Pipeline w/Exam	Veriforce LLC	608OP	4/11/2016	4/11/2019
Completed	Veriforce - CCT 428 Pin Brazing to Install CP Leads on Pipeline w/Exam	Veriforce LLC	428OP	4/11/2016	4/11/2019
Completed	Veriforce - CCT 606 Locate and Mark Submerged Pipelines w/ Exam	Veriforce LLC	606OP	4/11/2016	4/11/2019
Completed	Veriforce - CCT 605 Locate Line/Install Temporary Marking of Buried Pipeline w/Exam	Veriforce LLC	605OP	4/11/2016	4/11/2019
Completed	Veriforce - CCT 416 Monitoring for Internal Corrosion with Gas Samples w/ Exam	Veriforce LLC	416OP	4/11/2016	4/11/2019
Completed	Veriforce - CCT 706 Permanent Field Repair Using Composite Materials (Armor Plate) w/Acknowledgement	Veriforce LLC	706OP	4/8/2016	4/8/2019
Completed	Veriforce - CCT 706 Permanent Field Repair Using Composite Materials (Armor Plate) w/Acknowledgement	Veriforce LLC	706OP	4/8/2016	4/8/2019
Completed	Veriforce - CCT 705 Permanent Field Repair Using Composite Materials (Clockspring) w/Acknowledgement	Veriforce LLC	705OP	4/8/2016	4/8/2017
Completed	Veriforce - CCT 705 Permanent Field Repair Using Composite Materials (Clockspring) w/Acknowledgement	Veriforce LLC	705OP	4/8/2016	4/8/2017
Completed	Veriforce - CCT 722 Permanent Field Repair Using Composite Materials (Aqua Wrap) w/Acknowledgement	Veriforce LLC	722OP	4/8/2016	4/8/2019
Completed	Veriforce - CCT 719 Permanent Field Repair Using Composite Materials (Wrapmaster) w/Acknowledgement	Veriforce LLC	719OP	4/8/2016	4/8/2017
Completed	Veriforce - CCT 014 Maintain/Prove Flow Meters for CPM Hazardous Liquid Leak Detection	Veriforce LLC	014OP	4/8/2016	4/8/2019
Completed	Veriforce - CCT 418 General and Localized Corrosion Measurement (Remedial Measures) w/ Exam	Veriforce LLC	418OP	4/8/2016	4/8/2019

Completed	Veriforce - CCT 480 Apply Approved Coating by Hand Application w/ Exam	Veriforce LLC	480OP	3/23/2016	3/23/2019
Completed	Veriforce - CCT 614 Purge Pipeline Facilities With Air or Inert Gas w/Exam	Veriforce LLC	614OP	3/23/2016	3/23/2019
Completed	Veriforce - CCT 208 Plastic Pipe Joining: Butt Fusion w/ Exam	Veriforce LLC	208OP	3/23/2016	3/23/2017
Completed	Veriforce - CCT 210 Plastic Pipe Joining: Electrofusion Joining w/Exam	Veriforce LLC	210OP	3/23/2016	3/23/2017
Completed	Veriforce - CCT 302 Installation of Customer Meters and Svc Regulators (Residential and Small Comm) w/ Exam	Veriforce LLC	302OP	3/23/2016	3/23/2019
Completed	Veriforce - CCT 215 Joining of Metal Pipe - Flanged Connections w/Exam	Veriforce LLC	215OP	3/23/2016	3/23/2019
Completed	Veriforce - CCT 301 Install Tracer (electrically conductive) Wire w/Exam	Veriforce LLC	301OP	3/23/2016	3/23/2019
Completed	Veriforce - CCT 016 Purging - Hazardous Liquids w/ Exam	Veriforce LLC	016OP	3/22/2016	3/22/2019
Completed	Veriforce - CCT 218 Plastic Pipe Joining: Solvent Cement w/ Exam	Veriforce LLC	218OP	3/22/2016	3/22/2017
Completed	Veriforce - CCT 906 Rights-Of-Way Clean-Up w/Exam	Veriforce LLC	906OP	3/22/2016	3/22/2019
Completed	Veriforce - CCT 902 Field Bending of Pipe w/Exam	Veriforce LLC	902OP	3/22/2016	3/22/2019
Completed	Veriforce - CCT 607 Damage Prevention: Observation of Excavating and Backfilling w/Exam	Veriforce LLC	607OP	3/21/2016	3/21/2019
Completed	Veriforce - CCT 103 Nondestructive Testing (Other Than Testing of Welds) Mag Particle w/Exam	Veriforce LLC	103OP	3/21/2016	3/21/2019
Completed	Veriforce - CCT 482 Apply Approved Coatings by Mechanical Spray and Hand Application Methods w/ Exam	Veriforce LLC	482OP	3/21/2016	3/21/2019
Completed	Veriforce - CCT 413 Anode Installation on Submerged Pipeline or Facilities w/ Exam	Veriforce LLC	413OP	3/21/2016	3/21/2019
Completed	Veriforce - CCT 217 Small Diameter Metal Tubing and Fitting Installation w/Exam	Veriforce LLC	217OP	3/21/2016	3/21/2019
Completed	Veriforce - CCT 216 Joining of Metal Pipe - Compression Couplings w/ Exam	Veriforce LLC	216OP	3/18/2016	3/18/2019
Completed	Veriforce - CCT 409 Inspect Interference Bonds w/Exam	Veriforce LLC	409OP	3/18/2016	3/18/2019
Completed	Veriforce - CCT 602 Monitoring Pipeline Pressure w/Exam	Veriforce LLC	602OP	3/17/2016	3/17/2019
Completed	Veriforce - CCT 613 Purge Pipeline Facilities With Gas w/Exam	Veriforce LLC	613OP	3/11/2016	3/11/2019
Completed	Veriforce - CCT 612 Hot Tap (Plastic Pipe) w/Exam	Veriforce LLC	612OP	3/11/2016	3/11/2019

Completed	Veriforce - CCT 104 Nondestructive Testing (Other than Testing of Welds) - Dye Penetrant Inspection (DPI) w/ Exam	Veriforce LLC	104OP	3/10/2016	3/10/2019
Completed	Veriforce - CCT 021 Startup/Shutdown of Liquid Pipeline to Assure Operation within MOP w/ Exam	Veriforce LLC	021OP	3/10/2016	3/10/2019
Completed	Veriforce - CCT 007 Operate Valves w/Exam	Veriforce LLC	007OP	3/10/2016	3/10/2019
Completed	Veriforce - CCT 012 Inspect, Test and Maintain Liquid Leak Detection Flow Computers	Veriforce LLC	012OP	3/10/2016	3/10/2019
Completed	Veriforce - CCT 403 Apply Approved Coating to Below Ground Piping w/Exam	Veriforce LLC	403OP	3/10/2016	3/10/2019
Completed	VeriSource Drug and Alcohol Help Video	Veriforce LLC		3/10/2016	
Completed	INGAA - A Culture of Safety	Veriforce LLC	SafetyCulture	3/10/2016	
Completed	Veriforce - CCT 219 Plastic Pipe Joining: Stub Fittings w/Exam	Veriforce LLC	219OP	3/9/2016	3/9/2017
Completed	Veriforce - CCT 764 Squeeze Off Steel Pipe w/ Exam	Veriforce LLC	764OP	3/9/2016	3/9/2019
Completed	Veriforce - CCT 611 Hot Tap - Steel Pipe w/Exam	Veriforce LLC	611OP	3/9/2016	3/9/2019
Completed	Reasonable Suspicion Testing for Drugs (60 minutes)	Veriforce LLC		3/9/2016	
Completed	Reasonable Suspicion Testing for Alcohol (60 minutes)	Veriforce LLC		3/9/2016	

JANX

P.O. Box 190 Parma, MI 49269-0190
(517) 531-8210 Fax (517) 531-3911

OPERATOR QUALIFICATION & EMPLOYEE CERTIFICATION

Employee: Timothy Coss Emp ID: 02857
Method: RT Level: II JANX Task No: CT02
Certification Date: 4/10/15 Restrictions: none
This certification expires in 3 years Vision Acuity: Pass
Latest Eye Examination Date: 4/7/16 Natural: X Corrected:
Eye Examination Expires: 4/7/17 Color Contrast: Pass
Shades of Gray: Pass

This individual is a participant in a DOT approved Drug and Alcohol Misuse Program.

Education Record:

Grade School: X High School: X Vocational: College: Other:

Experience Record:

Company	Level	Months
Prime NDT	I	>9
Prime NDT	II	>36

Training Record:

Course	By	Hours
RT Level I	IUOE Local 112	40
RT Level II	IUOE Local 112	40

Examination Scores: General/Basic Specific Practical/Method Average
Method Tests: 100% 95% 90% 95%
AOC Test: Pass HAZMAT Training - 49 CFR 172 Subpart H Tested: 4/10/15

The information provided in this certification record is in accordance with the latest edition of:
The American Society for Nondestructive Testing's Recommended Practice SNT-TC-1A,
49 CFR Part 192, Subpart N, and 49 CFR Part 195, Subpart G.

All information provided is true and correct to the best of this company's knowledge. Copies
of tests and testing procedures and requirements are on file at JANX.

This certification was administered by:



Daniel Williams, ASNT NDT Level III No. 56554

JANX
VISION EXAMINATION PER JAEGER 1 OR EQUIVALENT

Near Vision Acuity: This test shall show that the employee has near distance acuity in at least one eye so that the employee is capable of reading a minimum of Jaeger Number 1 or equivalent size and type letter at a distance of not less than 12 inches on a standard Jaeger test chart or, that the employee has the ability to perceive an Ortho-Rater minimum of 8 or similar test pattern.

Employee Name: Tim Coss

Test Method Administered: Jaeger 1 ☐
Times New Roman 4.5 ☐
Equivalent ☐ (list) _____
Ortho-Rater ☐

Results: Acceptable ☒ Unacceptable ☐ Natural Corrected ☒ ☐

Color Contrast Differentiation: This test must show that the employee has the ability to distinguish and differentiate colors that are used in the particular methods of nondestructive testing. Acceptable results are 8 of 8 pseudosochromatic plates (Ishihara compatible) read correctly.

Employee has the ability to distinguish and differentiate colors: Yes ☒ No ☐

Shades of Gray Contrast Differentiation: This test must show that the employee has the ability to distinguish and differentiate shades of gray that are used in the particular methods of nondestructive testing. Acceptable results are a minimum of 20 out of 25 readings of the test chart developed by Dr. Köhl of ONE/TÜV/BV or equivalent.

Employee has the ability to distinguish and differentiate shades of gray: Yes ☒ No ☐

Limitations / Comments: _____

Declaration: The vision examinations have been administered to this employee on this date and the results as given above are true and correct to the best of my knowledge.

Signature of Examiner: [Signature]

Title of Examiner: Ohio Manager Date: 4-7-16

Determination: I, having the authority for the JANX, have reviewed this eye examination and concluded that this employee has successfully passed and is hereby considered visually qualified to work as a nondestructive testing technician.

Signature of authority: [Signature] Yes ☒ No ☐

Title of authority: Quality Systems Administrator Date: 4/7/16

Comments: _____



OQ Task Information

Utility Technologies International, Corporation 4700 Homer Ohio Lane, Groveport, OH 43125 614-482-8080

Big Oats (Great Plains)

38700 Pelton Road

Willoughby, OH 44094 440-942-1876

*E = Exam, O = Observation by Simulation (No Observation on M-7 required)

Prefixes of "NI_" are NISource-specific modules, suffixes of "Propane" are propane modules

*Task Criteria = Criteria Established by Specific Veriforce Contractor Criteria

Rowland, Thomas J.

N314-0B7373-93

*Veriforce Task Company
(if applicable:
NISourceTrans/Dominion)

ITS Task #	Qualifier	Evaluation Date	Expiration Date	*Qualification Method	Notes	
CI-1	Linda Kuhlman	4/16/2015	4/16/2018	E, O	Pass	
F-1_F-2	Jack Lurty	5/11/2015	5/10/2016	E, O	Pass	
F-1_Other					Saddle 5/11/15	
F-2	Jack Lurty	5/11/2015	5/10/2016	E, O		
G-1	Linda Kuhlman	4/14/2015	4/14/2018	E, O	Pass	
H-2	Linda Kuhlman	4/14/2015	4/14/2018	E, O	Pass	
I-1C	Jeff Wolfe	5/16/2011	5/16/2014	E, O	Pass	
Last SLI calc		10/26/2007	10/26/2010			
M-3	Linda Kuhlman	4/14/2015	4/14/2018	E, O	Pass	
M-7FR	Linda Kuhlman	4/15/2015	4/15/2018	E	Pass	
M-8	Jack Lurty	5/23/2011	5/23/2014	E, O	Pass	
NI_L-1(c)	Jack Lurty	5/11/2015	5/11/2018	E, O	Pass	
NI_L-2NoR	Linda Kuhlman	4/14/2015	4/14/2018	E, O	Pass	

Appendix D Qualification Status Update Record – Utility Series

Employee Name: _____

Employee ID Number: _____

Employee Job Title or Description: _____

Employee's Supervisor: _____

Employee's Reporting Location: _____

Employee's Employer: ☐ Pipeline Operating Company

☐ Contractor Employee

Contractor Name _____

Date of This Qualification Status Report _____

The employee identified above is currently qualified to perform the following identified covered tasks checked below:

✓ (check all covered tasks for which the employee is qualified)

Task	E-1	Weld on steel pipelines, 49 CFR 192.235, 192.241, 192.245
Task	E-2	Test welds using non-destructive process(es), 49 CFR 192.243
Task	F-1	Join plastic pipe with heat fusion, 49 CFR 192.281, 192.287
Task	F-2	Join plastic pipe with mechanical fittings, 49 CFR 192.281, 192.287
Task	F-3	Join copper pipe, 49 CFR 192.279
Task	G-1	Verifying excavation & backfilling operations to minimize damage, 49 CFR 192.317, 192.319, 192.325, 192.327, 192.361, 192.373, 192.461, 192.614
Task	G-2	Horizontal Directional Drilling, 49 CFR 192.307, 192.313, 192.315, 192.317, 192.319, 192.321, 192.323, 192.325, 192.701
Task	G-3	Boring by other methods, 49 CFR 192.161, 192.307, 192.317, 192.479, 192.481, 192.707
Task	H-1	Install domestic meter and regulator sets, 49 CFR 192.357
Task	H-2	Install domestic service lines, 49 CFR 192.361, 192.365, 192.367, 192.369

Task	I-1(1-4)	I-1.1 Perform pipe-to-soil potential surveys on effectively coating buried or submerged pipelines I-1.2 Determine areas of active corrosion on buried or submerged metal piping using pipe-to-soil potential I-1.3 Determine areas of active corrosion on buried or submerged metal piping using a surface potential survey I-1.4 Examine the external condition of exposed buried metal piping to determine if repair or replacement is necessary, 49 CFR 192.455, 192.457, 192.459, 192.465, 192.467, 192.613
Task	I-1(5-8)	I-1.5 Inspect rectifiers I-1.6 Inspect interference current bonds I-1.7 Install test leads to monitor and control external corrosion I-1.8 Install insulators to control external corrosion by electrical isolation, 49 CFR 192.455, 192.457, 192.459, 192.465, 192.467, 192.613
Task	I-1(9-10)	I-1.9 Inspect for evidence of internal corrosion I-1.10 Monitor internal corrosion control of piping when transporting corrosive gas, 49 CFR 192.475, 192.477, 192.613
Task	I-1(11-12)	I-1.11 Inspect exposed piping for evidence of atmospheric corrosion I-1.12 Monitoring atmospheric corrosion control of exposed piping, 49 CFR 192.479, 192.481, 192.613
Task	I-1(13,14,15)	I-1.13 Determine remedial measures for controlling corrosion on transmission lines I-1.14 Determine remedial measures for controlling corrosion on distribution lines I-1.15 Determine remedial measures for controlling corrosion on cast iron and ductile iron pipelines, 49 CFR 192.485, 192.487, 192.489, 192.613
Task	I-1(16-17)	I-1.16 Attach anode leads to metal piping I-1.17 Apply / repair pipeline coating, 49 CFR 192.471, 192.613
Task	I-1 Combo	I-1.7 Install test leads to monitor and control external corrosion I-1.8 Install insulators to control external corrosion by electrical isolation I-1.11 Inspect exposed piping for evidence of atmospheric corrosion I-1.12 Monitoring atmospheric corrosion control of exposed piping I-1.16 Attach anode leads to metal piping I-1.17 Apply / repair pipeline coating, 49 CFR 192.455, 192.457, 192.459, 192.465, 192.467, 192.471, 192.479, 192.481, 192.613
Task	L-1	Tap pipelines under pressure, 49 CFR 192.627
Task	L-2	Purge gas lines, 49 CFR 192.629

Task	L-3	Establish and maintain proper odorant levels in natural gas systems, 49 CFR 192.625
Task	L-3s	Monitoring odorant levels, 49 CFR 192.625
Task	M-1	Perform leakage and patrolling surveys, 49 CFR 192.613, 192.705, 192.706, 192.721, 192.723
Task	M-2	Locate and mark underground pipeline facilities WITH electronic equipment, 49 CFR 192.613, 192.707
Task	M-2(a)	Locate and mark w/o electronic locating equipment, 49 CFR 192.613, 192.707
Task	M-3	Test service lines, 49 CFR 192.725
Task	M-4	Inspect and test pressure limit stations, relief devices and pressure regulating stations, 49 CFR 192.731, 192.739, 192.741, 192.743, 192.749
Task	M-5	Maintain line valves in gas transmission/distribution piping, 49 CFR 192.745, 192.747
Task	M-5.1	Operate Valves – Ball, Plug, Gate, Butterfly, 49 CFR 192.745, 192.747
Task	M-6	Monitor compressor station gas detection equipment, 49 CFR 192.736
Task	M-7FR	Prevent accidental ignition, First Responder 49 CFR 192.751
Task	M-8 (Includes I-1.9 & I-1.10)	M-8 Installing/replacing & repairing natural gas piping I-1.9 Inspect for evidence of internal corrosion I-1.10 Monitor internal corrosion control of piping when transporting corrosive gas, 49 CFR 192.475, 192.477, 192.711, 192.713, 192.715, 192.717
Task	M-9	Repair/protect cast iron pipe, 49 CFR 192.753, 192.755
Task	M-10	Abandon/deactivate gas pipeline systems, 49 CFR 192.727

Approved by:

Signature	Title	Date
_____	_____	_____
_____	_____	_____
_____	_____	_____

Route Copies to:

Name	Title	Location
_____	_____	_____
_____	_____	_____
_____	_____	_____

Appendix E. Recommended
re-eval. intervals & use of
non-qualified personnel



Appendix E Recommended re-qualification intervals and whether the task can be performed by non-qualified personnel under direct supervision – Compliance Series

Listed below are UTI's recommendations on re-qualification intervals for each task, and whether or not the task should be performed by non-qualified personnel if under direct supervision. Your company may choose differently.

You must complete the appropriate sections on re-qualification intervals and the use of non-qualified personnel for each covered task in Appendix B.

Task Qualification Re-Evaluation Interval Determination

DIF Calculation Basis:

Assign a value to each of the first 3 columns (DIF) relative to the identified covered task.

1st column: A difficult (complex) task should have a score of 5; a simple task a score of 1.

2nd column: If the safety consequence of improper performance of the task is serious the score should be 5; if minor the score should be 1.

3rd column: A frequently performed task should have a score of 1; an infrequently performed task should have a score of 5.

Add across columns 1 through 3 to obtain the Total Rating.

If the Total Rating is:

Less than or equal to 6, the Re-evaluation Interval is 36 months.

Less than 12 but greater than 6, the Re-evaluation Interval is 24 months.

Greater than or equal to 12, the Re-evaluation Interval is 12 months.

Task No.	Task Name	DR	IR	FR	Tot.	Requal. Interval Months **	Can task be performed by non- qualified person
CE-1	Weld on Steel Pipelines, 49 CFR 192.225, 192.231, 192.235, 192.245	N/A*	N/A*	N/A*	N/A*	6	No**
CE-2	Visually Inspect Pipe Welds, 49 CFR 192.241, 192.243	2	2	2	6	36	No
CE-3	Perform Non-Destructive Tests on Steel Welds, 49 CFR 192.241, 192.243	4	4	4	12	12	No
CF-1	Join Plastic Pipe with Heat Fusion	N/A*	N/A*	N/A*	N/A*	12	No**
CF-1.1	Join Plastic Pipe with Butt Fusion, 49 CFR 192.123, 192.273, 192.281, 192.285, 192.287	N/A*	N/A*	N/A*	N/A*	12	No**
CF-1.2	Join Plastic Pipe with Socket Fusion, 49 CFR 192.123, 192.273, 192.281, 192.285, 192.287	N/A*	N/A*	N/A*	N/A*	12	No**
CF-1.3	Join Plastic Pipe with Saddle Fusion, 49 CFR 192.123, 192.273, 192.281, 192.285, 192.287	N/A*	N/A*	N/A*	N/A*	12	No**

CF-1.4	Join Plastic Pipe with Electrofusion, 49 CFR 192.123, 192.273, 192.281, 192.285, 192.287	N/A*	N/A*	N/A*	N/A*	12	No**
CF-2	Join Plastic Pipe with Mechanical Fittings	N/A*	N/A*	N/A*	N/A*	12	No**
CF-2.1	Join Plastic Pipe with Threaded Nut Compression End Fittings, 49 CFR 192.123, 192.273, 192.281, 192.285, 192.287	N/A*	N/A*	N/A*	N/A*	12	No**
CF-2.2	Join Plastic Pipe with Stab-Type Mechanical Fittings, 49 CFR 192.123, 192.273, 192.281, 192.285, 192.287	N/A*	N/A*	N/A*	N/A*	12	No**
CF-2.3	Join Plastic Pipe with Mechanical Compression Fittings, 49 CFR 192.123, 192.273, 192.281, 192.285, 192.287	N/A*	N/A*	N/A*	N/A*	12	No**
CF-3	Join Copper Pipe for Gas Distribution, 49 CFR 192.279	1	2	3	6	36	No**
CF-4	Join Plastic Pipe with Solvent Cement, 49 CFR 192.273, 192.281, 192.283, 192.285, 192.287, 192.311	1	2	3	6	36	No**
CF-5	Visually Inspect Polyethylene Pipe Joints for Indicators of Proper Construction/Assembly, 49 CFR 192.123, 192.273, 192.281, 192.283, 192.285, 192.287	2	2	2	6	36	No
CF-6	Install Tubing and Fittings for Instrumentation, Control, and Sampling, 49 CFR 192.203, 192.279	2	2	2	6	36	Yes
CF-7	Join Pipe with Flange Assembly, 49 CFR 192.147	1	2	3	6	36	Yes
CG-1	Verify Excavating and Backfilling Operations that Minimize Excavation Damage to Pipeline Facilities, 49 CFR 192.307, 192.317, 192.319, 192.321, 192.325, 192.327, 192.361, 192.461, 192.614	2	2	1	5	36	No
CG-2	Identify Basic Installation Methods for Mains and Transmission Pipelines, 49 CFR 192.307, 192.313, 192.315, 192.317, 192.319, 192.321, 192.323, 192.325, 192.327, 192.707	2	2	2	6	36	Yes
CG-3	Install Aboveground Pipelines, 49 CFR 192.161, 192.307, 192.317, 192.479, 192.481, 192.707	2	2	2	6	36	Yes
CG-4	Install Mains and Transmission Pipelines Using Trenchless Methods, 49 CFR 192.307, 192.321, 192.325, 192.327	2	2	1	5	36	No

CG-5	Moving In-Service Pipelines, 49 CFR 192.319, 192.321, 192.323, 192.325, 192.327, 192.459, 192.605, 192.614, 192.615, 192.707	3	2	1	6	36	No
CH-1	Install Customer Gas Meter and Regulator Sets, 49 CFR 192.353, 192.355, 192.357, 192.359	2	2	1	5	36	No
CH-2	Install Customer Gas Service Lines, 49 CFR 192.151, 192.361, 192.363, 192.365, 192.367, 192.369, 192.373, 192.375, 192.377, 192.379, 192.381	2	2	1	5	36	No
CH-3	Deactivate Gas Metering Services, 49 CFR 192.727	3	2	1	6	36	No
CH-4	Install Residential Customer Service Line Valves, 49 CFR 192.363, 192.365, 192.381, 192.383	2	2	1	5	36	No
CH-5	Maintenance of Service Valves Upstream of Customer Meter (in development), 49 CFR 192.363, 192.365	2	2	1	5	36	Yes
CI-1	Perform Pipe-to-Soil Potential Surveys on Effectively Coated Buried or Submerged Pipelines, 49 CFR 192.463	2	2	1	5	36	Yes
CI-2	Determine Areas of Active Corrosion Using Close Interval Survey Methods, 49 CFR 192.453, 192.465	3	2	1	6	36	Yes
CI-3	Measure Soil Resistivity, 49 CFR 192.453, 192.465	3	2	1	6	36	Yes
CI-4	Inspect the External Condition of Exposed Buried Metal Piping to Determine if Repair or Replacement is Necessary, 49 CFR 192.459, 192.461(a), 192.483, 192.485, 192.487, 192.489	2	2	1	5	36	Yes
CI-5	Inspect and Maintain Rectifiers, 49 CFR 192.465	3	2	1	6	36	Yes
CI-6	Inspect for the Effects of Interference Current, 49 CFR 192.465, 192.473	3	2	1	6	36	Yes
CI-7	Install Test Leads to Monitor and Control External Corrosion, 49 CFR 192.465, 192.469, 192.471	2	2	2	6	36	Yes
CI-8	Install and Test Insulation to Control External Corrosion by Electrical Isolation, 49 CFR 192.467	3	2	1	6	36	Yes
CI-9	Inspect for Evidence of Internal Corrosion, 49 CFR 192.475, 192.477	2	2	2	6	36	Yes
CI-10	Inspect and Monitor Exposed Piping for Evidence of Atmospheric Corrosion, 49 CFR 192.479, 192.481	2	2	2	6	36	Yes
CI-11	Install Sacrificial Anodes and Test Stations, 49 CFR 192.465, 192.469	2	2	2	6	36	Yes

CI-12	Measure the Extent of Corrosion on Pipeline Facilities, 49 CFR 192.459, 192.475, 192.477, 192.481	3	2	1	6	36	Yes
CI-13	Identify Procedures Basic to Inspecting, Applying, and Repairing Pipeline Coatings, 49 CFR 192.459, 192.461	2	2	2	6	36	Yes
CI-14	Obtain and Shipping Gas Samples, 49 CFR 192.475, 192.477	2	2	1	5	36	Yes
CI-15	Troubleshoot In-Service Cathodic Protection Systems, 49 CFR 192.463	3	2	1	6	36	Yes
CK-1	Uprate a Pipeline, 49 CFR 192.105, 192.121, 192.553, 192.555, 192.557, 192.619, 192.621, 192.623	3	2	1	6	36	Yes
CL-1	Tap Pipelines Under Pressure, 49 CFR 192.151, 192.627	3	2	1	6	36	No
CL-1a	Hot Tapping Pipelines Using Self-Tapping Tees, 49 CFR 192.627	2	2	1	5	36	No
CL-1b	Bagging and Stopping Low Pressure Pipe with Bag, Stopper, or Stopple, 49 CFR 192.151, 192.627	3	2	1	6	36	No
CL-2	Purge Pipelines (Small and Large Diameter), 49 CFR 192.629	2	2	1	5	36	Yes
CL-3	Odorizer Inspection, Testing, and Preventive/Corrective Maintenance, 49 CFR 192.625	2	2	1	5	36	Yes
CL-3a	Monitor Odorant Levels, 49 CFR 192.625	1	2	2	5	36	Yes
CL-4	Monitor and Regulate the Flow and Pressure of Gas from Remote Locations, 49 CFR 192.201, 192.619, 192.621, 192.623, 192.631, 192.741	2	2	2	6	36	Yes
CL-5	Perform Hot Tapping Operations on Plastic Pipe, 49 CFR 192.151(a), 192.627	3	2	1	6	36	No
CL-6	Inspect , Test, and Maintain Actuators, 49 CFR 192.179, 192.181, 192.745, 192.747	2	2	2	6	36	Yes
CL-7	Inspect, Test, and Maintain Programmable Logic Controllers, 49 CFR 192.605B, 10(iii), 192.739	3	2	1	6	36	Yes
CM-1	Perform Patrol and Leakage Surveys on Gas Pipeline Facilities, 49 CFR 192.5, 192.613, 192.705, 192.706, 192.721, 192.723	2	2	2	6	36	Yes
CM-2	Locate and Mark Underground Facilities, 49 CFR 192.614, 192.707	2	2	1	5	36	Yes
CM-3	Pressure Testing Gas Pipelines, 49 CFR 192.503, 192.505, 192.507, 192.509, 192.511, 192.513, 192.725	2	2	1	5	36	Yes

CM-4	Inspect and Test Pressure Limiting Stations, Relief Devices, and Pressure Regulating Devices, 49 CFR 192.201, 192.731, 192.739, 192.743, 192.749, 192.751	2	2	2	6	36	Yes
CM-5	Inspect, Service, and Operate Line Valves, 49 CFR 192.179, 192.181, 192.745, 192.747	2	2	1	5	36	Yes
CM-5a	Inspect Emergency Valves, 49 CFR 192.745, 192.747, 192.803	2	2	1	5	36	Yes
CM-5b	Valve Corrective Maintenance, 49 CFR 192.747	2	2	1	5	36	Yes
CM-6	Monitor Compressor Station Gas Leak Detection Equipment, 49 CFR 192.735, 192.736	2	2	1	5	36	Yes
CM-7	Prevent Accidental Ignition, 49 CFR 192.751	3	2	1	6	36	No
CM-8	Make Field Repairs on Gas Pipelines, 49 CFR 192.245, 192.307, 192.309, 192.311, 192.703, 192.711, 192.713, 192.715, 192.717	2	2	2	6	36	Yes
CM-9	Repair and Protect Cast Iron Pipe, 49 CFR 192.275, 192.489, 192.753, 192.755	2	2	2	6	36	Yes
CM-10	Abandon or Deactivate Gas Pipeline Facilities, 49 CFR 192.727	2	2	1	5	36	Yes
CM-11	Recognize and React to Generic Abnormal Operating Conditions, 49 CFR 192.751	3	2	1	6	36	No
CM-12	Launch and Receive Pipeline Pigs, 49 CFR 192.150	3	2	1	6	36	Yes
CM-13	Investigate Reported Gas Leaks and Odors in Buildings	3	2	1	6	36	No
CM-14	Inspect Vault Conditions, 49 CFR 192.749, 192.751	2	2	1	5	36	Yes
CM-15	Operate and Maintain Compressor Station Components, 49 CFR 192.167, 192.169, 192.171, 192.173, 192.199, 192.201, 192.605(a)(b)(6)(7), 192.731, 192.743	2	2	2	6	36	Yes
CM-16	Inspect, Test, and Maintain Sensing Devices, 49 CFR 192.739, 192.741, 192.743	2	2	1	5	36	Yes
CM-17	Squeeze-Off Steel Pipe, 49 CFR 192.615	2	2	1	5	36	Yes

CM-18	Station Emergency Shut Down System: Inspection, Testing, and Corrective Maintenance, 49 CFR 192.167, 192.171, 192.731, 192.736	3	2	1	6	36	Yes
CM-19	Installing and Maintaining Customer Pressure Regulating, Pressure Limiting, and Pressure Relief Devices: Large Commercial and Industrial, 49 CFR 192.199, 192.743	2	2	2	6	36	Yes
CM-20	Reciprocating Compressor Inspection, Testing, and Corrective Maintenance, 49 CFR 192.731	3	2	1	6	36	Yes
CM-23	Measure and Characterize Mechanical Damage on Installed Pipe and Components, 49 CFR 192.307, 192.309	3	2	1	6	36	Yes
CO-1	Conduct Indirect Pipe Inspections, 49 CFR 192.925, 192.947	3	2	1	6	36	Yes
CO-2	Conduct Direct Pipe Examinations, 49 CFR 192.927, 192.947	3	2	1	6	36	Yes

Approved by:

Signature: *Theresa* Title: *Compliance Manager* Date: *August 1, 2016*

* Not Applicable due to specific code requirements

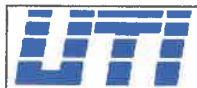
** Cannot use non-qualified personnel do to specific code requirements

Appendix F
Operator Qualification Field
Operation Record



Appendix F – Operator Qualification Field Observation Record – Compliance Series

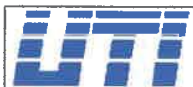
Company Observed		Observer			
Location			Date:		
Employees Observed					
Name	Number (Employee # or SSN)	Task Observed	Were tasks being completed in accordance to O &M plan and requirements of OQ plan		Were employees able to recognize and react to AOC's
			Yes	No	Yes No
Comments (If any no's were answered employee must be stopped from performing covered task without supervision and the appropriate provisions of the OQ plan should be implemented)					
Continuous Improvement Recommendations (This must be provided to the person responsible for OQ Plan implementation.)					
Action Taken					
By:			Date		



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Appendix F – Operator Qualification Field Observation Record – Utility Series

Company Observed		Observer				
Location		Date:				
Employees Observed						
Name	Number (Employee # or SSN)	Task Observed	Were tasks being completed in accordance to O &M plan and requirements of OQ plan		Were employees able to recognize and react to AOC's	
			Yes	No	Yes	No
Comments (If any no's were answered employee must be stopped from performing covered task without supervision and the appropriate provisions of the OQ plan should be implemented)						
Continuous Improvement Recommendations (This must be provided to the person responsible for OQ Plan implementation.						
Action Taken						
By:			Date			



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Ohio Rural Natural Gas, Co-Op

Distribution Integrity Management Plan (DIMP)



Version 1.0
June 1, 2015

OHIO RURAL NATURAL GAS CO-OP				
1" PLASTIC	2" PLASTIC	4" PLASTIC	1" STEEL	
17	4	5,400	3	
	930	550	13	
	163	1,700		
	311	7,075		
	302	545		
	304	765		
	326			
17	2,340	16,035	16	TOTAL FEET
0.003	0.443	3.037	0.003	TOTAL MILES

INFO			
17'	1" P	13164 LEROY CTR RD - LEROY	
3'	1" S	6970 WILLIAMS RD - CONCORD	
13'	1" S	12321 CARTER RD - LEROY	
4'	2" P	800 OAK ST - PAINESVILLE	
930'	2" P	SUGARBUSH DR - MENTOR	
163'	2" P	SUGARBUSH DR - MENTOR	
311	2" P	TIN MAN STORAGE - MENTOR	
302	2" P	TIN MAN STORAGE - MENTOR	
304	2" P	TIN MAN STORAGE - MENTOR	
326	2" P	TIN MAN STORAGE - MENTOR	
5400'	4" P	ELLSWORTH RD - MAHONING CTY	
550'	4" P	EAST AVE - MENTOR	
1700'	4" P	S. DUCK CREEK RD - MAHONING	
7075'	4" P	HALLOCK YOUNG & LYNTZ RDS	
545'	4" P	FRACCI COURT - MENTOR	
765'	4" P	TIN MAN RD - MENTOR	

Table of Contents

1. Introduction
 - a. Overview
 1. Purpose
 2. Scope
 - b. Elements of DIMP
2. Knowledge
 - a. General
 - b. DOT Annual Report Information
 - c. Additional Information
 - d. Knowledge of the System
 - e. Documentation
3. Identify Threats
 - a. Primary Threats
 - b. Identify Threats
4. Evaluate and Prioritize Risk
 - a. General
 - b. Information Evaluation
 - c. Methods
 - d. Risk Evaluation
 - e. Validation
5. Identify and Implement Measures to Address Risks
 - a. General
 - b. Leak Management Program
6. Measure Performance, Monitor Results and Evaluate Effectiveness
 - a. General
 - b. Guidelines for Developing Performance Measures
 - c. Performance Measures
 - d. Monitor Results
 - e. Evaluate Effectiveness
7. Periodic Evaluation and Improvement
 - a. Review of Written Plan
 - b. Review of Effectiveness

8. Report Results
 - a. General
9. Forms
10. Part 192 Subpart P – Gas Distribution Pipeline Integrity Management
11. GPTC Guide Material Appendix G-192-8

1. Introductions

a. Overview

1. Purpose

This is the Distribution Integrity management Plan for Ohio Rural Natural Gas (ORNG). This plan provides the requirements for compliance with the Distribution Integrity Management Program, Subpart P, 49CFR Part 192 Transportation of Natural and Other Gas by Pipeline: Minimum Federal Safety Standards. The objective of this plan is to increase the safety and integrity of the pipeline facilities. The person(s) responsible for the administration and implementation of this plan is/ are Lauren Tristano, Compliance Manager and Darryl Knight, President.

2. Scope

This plan addresses all gas distribution facilities defined in 49 CFR 192.3 including mains, service lines, service regulators, and low, medium and high pressure distribution.

b. Elements of DIMP

Below are the general elements that will be considered and addressed within the program. These elements are addressed in greater detail in the following sections of the plan.

- 1. Knowledge**
- 2. Identify Threats**
- 3. Evaluate and Prioritize Risk**
- 4. Identify and Implement Measures to Address Risks**
- 5. Measure Performance, Monitor Results and Evaluate Effectiveness**
- 6. Periodic Evaluation and Improvement**
- 7. Report Results**

2. **Knowledge (192.1007(a))**-Below are Ohio Rural Natural Gas Co-Op's methods of gathering information; as well as the specific information to be gathered in order to demonstrate a working knowledge of the company's facilities. This is followed by a summary of knowledge which will describe in detail the results of the information gathered thus far, as of the current revision (1.0) of this program.

a. **General**

Information pertaining to the pipeline system and the environment will be gathered. This information will assist with indentified the threats that apply to particular sections of the facilities. If particular information is not available, estimations will be concluded based on individual knowledge of the facilities (i.e. SME). New information obtained through the normal course of operations and maintenance activities will be incorporated into the program. It is not necessary to conduct excavation activities to gather system information. Whenever possible, information gathered with existing procedures will be utilized; such as during additions to existing facilities or performing routine inspections and maintenance. If significantly different systems/areas are identified within the entire pipeline system, separate consideration will be given to these groups within the program.

Subject Matter Experts

Subject Matter Experts (SME's) are individuals with specific knowledge of the entire system, or of a particular section or component of the system. As Ohio Rural Natural Gas Co-Op is an entirely new system with no pre0existing facilities, we anticipate several employees who will become SME's based on not only their required duties, but also due to the exchanging of information within the company moves forward.

- Darryl Knight, President
- Lauren Tristano, Compliance Manager
- Jack McCormick, Field Operator
- Dave Stanish, Field Technician/Supervisor
- Ryan McCormick/ Field Technician

b. **DOT Annual Report Information**

The PMHSA Form F7100.1-1 is an annual form which contains basic information regarding pipeline facilities. Pipe sizes, materials, lengths, leaks, leaks eliminated etc. are reported. This information assists us in implementing the DIMP, as it contains basic information which is essential to understanding and knowing the system.

c. **Personnel Knowledge**

Field personnel will be utilized in gathering system knowledge. They may have specific knowledge of construction techniques and materials used when other sources of information are not available. Information that is particularly important includes pipe specification and component information, construction and installation methods and corrosion control systems and methods. This information will be part of the documentation of knowledge process.

d. **Knowledge of the system**

Physical Infrastructure

Physical infrastructure includes the location, material composition, piping sizes, construction methods, dates of installation, operating pressure, maximum allowable operating pressure and design pressure.

To the extent possible the following data will be collected:

Pipe Material

- a. Plastic
 - Polyethylene (PE)
 - Polyamide 11 (PA11)
 - Poly Vinyl Chloride (PVC)
 - Acrylonitrile Butadiene Styrene (ABS)
 - Cellulose Acetate Butyrate (CAB)
 - Aldyl-A
 - Polybutylene (PB)
- b. Steel
- c. Copper
- d. Cast Iron
- e. Ductile Iron
- f. Aluminum
- g. Fiberglass
- h. Other

Pipe Specifications

- a. Diameter
- b. Joint length (for cast iron)
- c. Manufacturer
- d. Year manufactured
- e. Steel pipe specs
 - Grade
 - Wall thickness
- f. Plastic pipe specs
 - Medium/high density
 - SDR
 - Straight lengths (stick or coil)

Operating Conditions

- a. Pressure
- b. Gas Quality
- c. Odorization
- d. Odorant Detection
- e. Abnormal Operation Conditions (AOC's)

Construction

- a. Year installed
- b. Pipe joining method
- c. Installation method (open trench, plow, boring, directional drilling)
- d. Location (from lot line or centerline, class location, end points)

- e. Cover
 - Depth (original, current, restored)
 - Type (backfill, pavement, grass, dirt, gravel, above ground)
- f. Company or contractor completing installation
- g. Casings
- h. Crossings (highway, bridge, underwater)
- i. Expansion loops (thermal effects)
- j. Pipe support systems

Corrosion Control Systems

- a. Below ground coating type (coal tar, fusion bond epoxy, yellow jacket, wax)
- b. Cathodic protection (galvanic anode, bank or distributed, impressed current)
- c. Electrical isolation (type, location)
- d. Years without cathodic protection
- e. Stray current areas (interference, diodes, bonds, reverse current switch)
- f. Rock shield
- g. Above ground coating types

Valves

- a. Size
- b. Type
- c. Location
- d. Usage (emergency, station shutoff, bypass, convenience)
- e. Manufacturer
- f. Material of construction
- g. End connections
- h. Year of manufacture/installation
- i. Pressure rating (ANSI or WOG)

System pressure regulation

- a. Size
- b. Location
- c. Differential pressure
- d. Capacity
- e. Operation (Pilot, spring, weight)
- f. Manufacturer
- g. Means of over pressure protection (relief, monitor, slam shut)

Other

- a. Specialized components (insulating joint, union, meter swivel, anodeless riser, etc.)
- b. Fabricated or homemade fittings (reducers, couplings, etc.)
- c. Experimental or trial fittings
- d. Critical facility under the Homeland Security definition

Operating Experience

Information of what is currently happening within the pipeline system along with historical information will be gathered and reviewed to determine if action is necessary. This information will come from the following routine operation and maintenance activities.

1. Results of inspections and surveys

- a. Leak surveys
 - b. Corrosion inspections
 - c. Patrols
 - d. Liquids removed
- 2. Documentation of leaks and other maintenance performed
 - a. Repairs
 - b. Corrosion control systems
 - c. Equipment or component replacements
 - e. Material failure reports
 - f. Incident reports
 - g. Part C of the annual F7100 report
- 3. Excavation activity
 - a. Damage reports
 - b. Number of underground locate requests received
 - c. Proposed significant construction activities
- 4. Geological conditions
 - a. Frost areas
 - b. Earthquake zones
 - c. Known washout areas
 - d. Land subsidence areas
- 5. Operating Pressure/MAOP
 - a. Maximum actual operating pressure experienced
 - b. Minimum operating pressure experienced (i.e. peak day)
 - c. Normal operating pressure
 - d. Fluctuations (seasonal, random)
 - e. Previous upratings performed

e. Documentation

As ORNG is an entirely new system, all data is to be captured and retained as new knowledge. Unless there are acquisitions of older, pre-existing systems; the basis of the knowledge of our system will come from documentation and records of properly completed paperwork associated with newly installed facilities. It is not applicable to gather or research additional methods for gathering missing historical information.

Documents may already exist to fulfill the requirements of Federal and/or state standards, company policy, or devised solely to fulfill the DIMP. Section 9 of this plan contains forms to be utilized by ORNG in order to fulfill requirements and simultaneously gather data to attain system knowledge. System knowledge information will be gathered and organized. Methods for doing this include:

- 1. Identifying relevant system components on maps
- 2. Maintaining electronic records
- 3. Maintaining hard copy files
- 4. Any combination of the above

[illegible]

Abbreviations

Pipe Material		Test Stations	
Coated Steel	CS	# of Test Stations	Insert Qty
Bare Steel	BS	Test Stations below Criteria	Insert Qty
Copper	CU	Test Station Repairs	Insert Qty
Cast Iron	CI	Compliance OK	Yes/No
Ductile Iron	DI		
Aluminum	AL	Density	
Fiberglass	FG	Medium Density	MD
Other	O	High Density	HD
Plastic		Installation Method	
Polyethelene	PE	Open Trench	OT
Polyamide 11	PA11	Plow	P
Poly Vinyl Chloride	PVC	Boring	B
Acrylonitrile Butadiene Styrene	ABS	Directional Drilling	DD
Cellulose Acetate Butyrate	CAB		
Aldyl A	AA	Stray Current Areas	
Polybutylene	PB	Interference	IN
Other	O	Diodes	DI
		Bonds	B
Joining Method		Reverse Current Switch	RCS
Coupling	CO	See Attachment	Attach
Welded	W		
Threaded	TH	Above Ground Coating	
Fused	F	Paint	P
Electro Fusion	EF	Tape	T
Adhesive	AD	Bare	B

Summary of Knowledge – Below is a summary of the existing facilities of Ohio Rural Natural Gas Co-Op.

As of 2015, Ohio Rural Natural Gas is an entirely new distribution system. There are no natural gas facilities in this system acquired or constructed prior to the year 2015.

As of this current version (1.0) of DIMP, Ohio Rural Natural Gas Co-Op has approximately 13,728' (feet) of 4" PE Plastic pipe, in a Class 1 location. The pipeline is currently inactive, and if activated will have an operating pressure below 60psi. There are no pipelines or other facilities operated by ORNG that were constructed prior to 2015.

13,728' of 4" PE pipe was installed out of compliance with *49 C.F.R. §192.13(c)* and with *O.A.C. 4901:1-16-06(D)*. Therefore, this installation requires serious consideration when identifying threats, risks, and taking preventative/improving measures. This segment will be discussed in further detail in the following sections of this plan.

3. Identify Threats (§192.1007(b))

a. Threats

Once system knowledge is collected and evaluated, ORNG is to determine how the following threats may compromise the integrity of the distribution system.

1. Corrosion
2. Natural forces
3. Excavation damage
4. Other outside force damage
5. Material or weld failure
6. Equipment malfunction
7. Inappropriate operation
8. Other

b. Threat Identifications

This section identifies all primary threats to the ORNG distribution system. Below is a list of primary threats, a description of each threat, followed by an explanation of how each threat pertains to the distribution system.

Corrosion

As of this current revision (1.0), Ohio Rural Natural Gas Co-Op does not operate any below ground steel piping. Shall ORNG anticipate the addition of underground steel piping, the threat of corrosion will be evaluated and implemented into the program. There are plans to operate town border or regulator stations within the year. Such facilities are susceptible to corrosion. Due to the frequency in which ORNG will inspect for corrosion; which is at a minimum once per calendar year NTE 15 months per §192.465, combined with the low number of potential corrosion areas within this first year of operations; corrosion will be a low threat for the system.

There are no indications or expectations of liquid within any ORNG natural gas facilities which may induce internal corrosion.

All above ground metallic facilities are subject to atmospheric corrosion. While currently not operating any as of this revision (1.0), regulator stations and meter sets are anticipated to occur within this year. Meter readers, technicians, and any other field personnel are instructed to perform atmospheric corrosion inspections whenever possible during other routine duties. These inspections are supplements to a dedicated atmospheric corrosion inspection that is performed at least once every 3 years per §192.481. The system is also currently in its infancy, and will remain at most a small system throughout the period of which this plan covers, the threat of atmospheric corrosion will be low as well.

Any possible threat of corrosion occurring would be isolated.

Corrosion Likelihood Threat: 1

Natural Forces.

As of this current version (1.0), there are no facilities located in areas prone to natural forces such as land subsidence, washout areas, flooded areas, sinkholes, or bodies of water. ORNG does not anticipate the addition of facilities located in such areas within the year. Due to the climate of the region (Northeast Ohio), the facilities may be susceptible to frost or ice damage. Our SME's do not view this as a high threat.

The likelihood threat for all subcategories of natural forces will be extremely low, and isolated.

Natural Forces Likelihood Threat: 1

Excavation Damage

Damage to facilities caused by excavation is a system-wide threat. Therefore it is generally the greatest cause of leaks in a natural gas distribution system. Service lines are more susceptible to damage as a result of home or business owner excavation. In other words, non-excavation professionals who are likely to be less aware of the threats of not utilizing the one-call system. Current ORNG facilities exist in a Class 1 location with infrequent development and construction activity. ORNG is also a member of the Ohio Utilities Protection Service (OUPS) and participates in a public awareness program to reduce the threat of excavation damage. Combining these factors, the current risk for excavation damage will remain low but relatively higher than other threats to the ORNG system.

Excavation Damage Threat: 4

Other Outside Force Damage

ORNG does not operate in any locations prone to high vehicular traffic or nearby heavy equipment, nor does it anticipate doing so within the year of this revision (1.0). There are no current or potential locations where vandalism, wreckage, or unauthorized operations have been known to occur. The likelihood factor for Outside Force Damage is low, and such an incident would be extremely isolated.

Outside Force Likelihood Threat: 1

Material or Weld Failure

As a new facility, Ohio Rural Natural Gas has no prior experience with malfunctions or defects of any pipe, fittings, components, or joints. ORNG does not and will not utilize any type of piping materials which have been known to malfunction such as Aldyl A pipe manufactured prior to 1973. Mechanical fitting failures will be recorded and reported annually to PHMSA per §191.12. Section 9 contains the form utilized by Ohio Rural Natural Gas to record failures in mechanical fittings.

The threat of material or weld failures in this system is low, and an occurrence would likely be an isolated incident.

Material or Weld Failure Likelihood Threat: 1

Equipment Malfunction

Failures of equipment such as regulators and relief valves or other repeated failures of piping components such as threaded joints shall be identified.

As of this version (1.0) of the program, ORNG does not operate any regulators or relief valves with any historical failures. The threat for equipment malfunctions occurring on the ORNG system is low, and the occurrence would be localized.

Equipment Malfunction Likelihood Threat: 1

Inappropriate Operation

In January 2015, approximately 13,728 ft. of 4" PE plastic pipe was installed by a third party contractor on behalf of Ohio Rural Natural Gas Co-Op. This section is located in Lordstown, in Trumbull County, Ohio. It was installed prior to the company's implementation of an Operating and Maintenance Program, an Operator Qualification Program, and a DIMP.

As a result, the procedures used by the third party contractor to install the pipe could not be O.Q. approved by ORNG during the time of installation. Although the O.Q. of the contractor has since been reviewed and the procedures are approved by the developed O.Q. Plan of ORNG; this section has been identified as an area where the pipeline integrity may be compromised due to inappropriate operation.

This likelihood threat will remain high in relative terms, but low overall as information indicates that the pipe segments have been properly installed. This is the only segment of piping installed out of compliance, and future installations of pipeline and facilities will likely have a much lower perceived threat of hazardous leaks due to inappropriate operations.

Inappropriate Operation Likelihood Threat: 3

Other

Any other threats that may be found shall be identified. These threats would most likely be attributable to special circumstances within the piping system.

ORNG cannot identify any special circumstances or anticipated factors could cause damage to its facilities. This threat is low.

Likelihood of Other Types of Threats: 1

Threat Identification Table

Table 3.1 will be used as a tool to assist with assessing the threats to the pipeline. This information will be used to further analyze the threats and assign likelihood factors as part of the evaluation and prioritization of risk in section four.

Threat Identification – Table 3.1					
Primary Threat	Threat Subcategories	Questions to Check Subcategory Applicability to System	Extent of Threat		
			General	Local	N/A
Corrosion	External corrosion: bare steel pipe	<ul style="list-style-type: none"> -Does bare steel exist in the system? -Is the pipe cathodically protected? -Have corrosion leaks occurred? -Do exposed pipe inspections indicate external corrosion? -Are cathodic protection readings consistently adequate during annual monitoring? -Are there known sources of stray electrical currents in the area? 			✓
	External corrosion: cast iron pipe	<ul style="list-style-type: none"> -Does cast iron or ductile iron exist in the system? -Have fractures occurred in the pipe, other than those related to excavation activities? -Are those fractures limited to certain diameter pipe? -Are there known sources of stray electrical currents in the area? -Do exposed pipe inspections indicate external corrosion? 			✓
	External corrosion: coated and wrapped pipe	<ul style="list-style-type: none"> -Does coated and wrapped steel exist in the system? -Is the pipe cathodically protected? -Have corrosion leaks occurred? -Are there known sources of stray electrical currents in the area? -Are cathodic protection readings consistently adequate during annual monitoring? -Do exposed pipe inspections indicate external corrosion? -Do exposed pipe inspections indicate coating deterioration? 			✓
	Other metallic materials	<ul style="list-style-type: none"> -Do other metallic materials exist in the system? -Is the pipe cathodically protected? -Have corrosion leaks occurred? 			✓
	Internal corrosion	<ul style="list-style-type: none"> -Does metallic pipe exist in the system? -Does piping inspection indicate internal corrosion? 			✓

Threat Identification – Table 3.1					
Primary Threat	Threat Subcategories	Questions to Check Subcategory Applicability to System	Extent of Threat		
			General	Local	N/A
		<ul style="list-style-type: none"> -Have internal corrosion leaks occurred? -Have liquids been found in your system? 			
Natural Forces	Outside force/weather: steel pipe	<ul style="list-style-type: none"> -Do portions of the system lie in areas of know land subsidence, landslides, earthquake fault zones, or washouts? 			✓
	Outside force/weather:	<ul style="list-style-type: none"> -Has outside force caused plastic pipe to fail? -Do portions of the system lie in areas of known land subsidence, landslides, earthquake fault zones, or washouts? 			✓
	Outside force/weather: cast iron pipe	<ul style="list-style-type: none"> -Are there leaks due to ground movement, frost heave, or earth subsidence? 			✓
Excavation Damage	Operator (or its contractor)	<ul style="list-style-type: none"> -Are damages being caused by crews not following One-Call laws? -Have damages from mis-located lines or poorly performing locators been experienced? -Are facilities marked out, and marked out accurately? -Are damages being caused failure to protect pipe during backfill operations? 			✓
	Third-party	<ul style="list-style-type: none"> -Has an increase in construction activity been experienced? -Is there a One-Call system covering the system? -Are damages being caused from mis-located lines or poorly performing locators? -Are damages being caused failure to protect pipe during backfill operations? -Have leaks been experienced on the system where previous damage has occurred? -Are there known areas of blasting or demolition activities? -Have leaks occurred due to blasting? -Do portions of the system exist in areas where excavation in the area of the pipeline would require the use of explosives? 			✓ ✓
Other Outside Force Damage	Vehicular	<ul style="list-style-type: none"> -Are above ground facilities being hit by vehicles? -Are aboveground facilities located near a roadway, driveway, or other location where there may be susceptible to vehicular damage? -Are susceptible aboveground facilities protected from vehicular damage? 			✓

Threat Identification – Table 3.1					
Primary Threat	Threat Subcategories	Questions to Check Subcategory Applicability to System	Extent of Threat		
			General	Local	N/A
	Vandalism	-Has damage or leakage been caused by malicious actions of unauthorized individuals? -Has gas theft occurred?			✓
Material or Weld Failure	Manufacturing defects	-Have manufacturing defects in pipe or non-pipe components been experienced?			✓
	Mechanical damage	-Have failures due to mechanical damage been experienced, such as underground structures in contact with facilities?			✓
	Materials/Plastic	-Do any of the following materials exist in the system? <ul style="list-style-type: none"> • Century Utility Products • Low-ductile inner wall Aldyl a pipe manufactured by Dupont Company before 1973? • PE 3306? 			✓
Equipment Malfunction	System Equipment	-Have failures been experienced due to leaking seals or gaskets? -Have regulator or control malfunctions been experienced?			✓
Inappropriate Operation	Inadequate procedures	-Have failures been experienced due to inadequate procedures?			✓
	Inadequate safety practices	-Have failures been experienced due to inadequate safety practices?			✓
	Construction/workmanship defects	-Have failures been experienced due to workmanship defects?			✓
	Failure to follow procedures	-Have failures been experienced due to a failure to follow procedures?			✓
Other		-Have failures been experienced due to other reasons?			✓

4. Evaluate and Rank Risk (§192.1007(c))

a. General

Various factors will be considered when evaluating and prioritizing risk. Listed below are some of these factors.

1. Determining if more measures should be taken or modified to prevent and reduce risks.
2. Developing a method for evaluating and ranking risks.
3. Grouping facilities that have similar rankings of risks and threats.
4. Considering a facility's specific operating requirements and characteristics when evaluating risks.
5. Develop a strategy for compensating for unavailable information, if it exists.

b. Information Evaluation

Information about facilities and pipelines of the Ohio Rural Natural Gas system can be collected during the course of all other routine operations and activities. Technicians and operators are instructed to be "investigative" when determining the causes of issues such as low cathodic reads, leaks, etc. A greater attention to detail allows us to determine how a particular threat may or may not apply to distribution systems or segments.

Information evaluation can be completed using a stand-alone approach or can be more complex using several stand alone approaches to complete the evaluation. Examples of stand-alone approaches include:

1. SME review of information.
2. Conducting periodic inter-departmental meetings.
3. Conducting periodic SME meetings.
4. Assigning a centralized group to review all information.
5. Using an electronic database.
6. Using a software program that evaluates risk.

c. Method for Risk Evaluation

As the ORNG system is extremely small and not complex in its current state, we will utilize an SME method to evaluate risks of the distribution system. Subject matter experts are to:

1. Identify historical problems within the system and relate them to the eight threat categories. Subcategories may be used to provide more detail to the system's threats.
2. Demonstrate a thorough understanding of the system and its operations.
3. Evaluate and rank risks based on the threats and consequences they have on ORNG facilities.
4. Correctly address risks when they are evaluated.
5. Establish performance measures for risk management activities and monitor them accordingly.
6. Evaluate and adjust program activities.
7. Report and document information as required.

e. Risk Evaluation

A simple formula will be used to evaluate and prioritize risks on the distribution facilities. This formula allows ORNG to determine the most critical risks. It is the product of likelihood of a threat occurring multiplied by its consequence.

$$\text{Risk} = \text{Likelihood} \times \text{Consequence}$$

Grouping of Facilities

Facilities within the system that have common attributes will be grouped together to allow us to more easily identify the extent of our risks; and to follow trends that may occur among similar systems. These shared traits consist of the following:

- Class location/population of area
- Operating pressure of facilities
- Size of the pipeline

The traits above play a role in determining the Consequence Factor of a leak should one occur.

Determining Threats

Based on historical data and the judgement of our SME's, each of the identified threats is ranked with a number from 1 to 10 to indicate the likelihood of the threat occurring. This number is called the likelihood factor and is based on threat identification, with 1 representing the lowest threat occurrence and 10 being the greatest. This number is determined based on analysis performed in Section 3 – Identify Threats, which begins on Page 15 of this document.

The table below demonstrates the likelihood factors of threats occurring on the ORNG system. As can be seen, excavation damage (4) and inappropriate operation (3) have been determined to be the most likely occurring threats on the system.

Table 4.1 Threats	
Threat	Likelihood Factor
Corrosion	1
Natural Forces (frost, landslides)	1
Excavation Damage	4
Other Outside Force damage	1
Material or weld failure	1
Equipment Malfunction	1
Inappropriate Operation	3
Other	1

Determine Consequence Factor

The consequence of a system failure or hazardous leak can be given a value based on a number of variables. Characteristics of a pipeline and surrounding populations are important factors in determining the severity of a leak, should one occur. To calculate a consequence factor, features of a facility and its surroundings are grouped into three categories: Population, Operating Pressure, and Size. The higher the number, the greater the consequence that could result from a hazardous leak or condition. These three numbers are then added together to create a single number known as the Consequence Factor. A summary of Consequence Factors appears on the table below (4.2). It should be noted that not all of these factors are present on the ORNG system, but the table shows that these values have already been determined should the factors be created in the system.

Table 4.2 Consequence Factors	
Description	Consequence Factor
Population/Location	
Rural (Class 1 or 2)	3
Suburban (Class location 3)	6
Urban (Class location 4)	8
Sensitive facility in Class location 3 or 4	10
Isolated sensitive facility	7
Concentrated population (e.g. business district)	7
Facility near buildings (e.g. service line, meter set)	6
Facility away from buildings (e.g. street main)	4
Operating Pressure	
< 60 psig	2
> 60 psig	4
Nominal Size	
2"	2
4"	4
Larger than 4"	6

As of this current revision (1.0) of the plan, the ORNG system contains only one Consequence Factor of 9

Rural Location (3) + <60 psig (2) + 4" pipe (4) = (9)

Determine Relative Risk

Relative Risk is the result of a formula that multiplies likelihood of an occurring threat by the consequence factor of a given facility's location and features. The table below (4.3) depicts the Relative Risk Calculation for the entire ORNG distribution system.

Table 4.3 – Relative Risk Calculation					
Threat	Likelihood	Consequence			Relative Risk
		Pop.	Pressure	Size	
Corrosion	1	3	2	4	9
Excavation Damage	4	3	2	4	36
Natural Forces	1	3	2	4	9
Other Outside Force	1	3	2	4	9
Material or weld failure	1	3	2	4	9
Equipment Malfunction	1	3	2	4	9
Operation	3	3	2	4	27
Other	1	3	2	4	9

This calculation is to be completed for every existing threat and for each unique consequence group. As of this version (1.0) of the plan, there only exists one consequence grouping within the ORNG system. The results of the above Relative Risks will allow us to identify the system's most urgent problems and to develop further means of addressing them in a structured manner.

f. Validation

In order to validate the results of our risk rankings, we will determine:

1. Whether or not the company's records of maintenance and operations reflect the same emphasis on higher risk ranked facilities
2. Whether the company's SME's agree with the ranking of the risks

If there is not a consistency among either of the above two referencing methods, we will review and seek to revise the criteria used in this plan for gathering knowledge. An inconsistency does not necessarily indicate a flawed process, but can simply mean that there is a correlation or difference that is not understood. Further investigation would then be conducted to remedy the inconsistency.

5. Identify and Implement Measures to Address Risks (§192.1007(d))

a. Techniques

Once risks have been identified, evaluated, and ranked, the goal is to eliminate the risk, reduce the likelihood of threats, and/or to reduce the consequences of all system issues. The following procedures will be performed in order to address risks to the ORNG distribution system:

1. Prevention
2. Remediation
3. Mitigation
4. Additional or Accelerated (A/A) Actions

Methods used to address risks will vary depending on specific attributes, locations, and threats to a facility. These actions can address either the likelihood of a threat occurring, the resulting consequences of a risk, or both. The priority and intensity of the actions taken is determined by the relative risk ranking. Table 5.1 below provides examples of actions which will be taken to address specific threats.

Table 5.1 – A/A, Prevention, Remediation, Mitigation		
Threats		Possible Actions
Primary	Subcategory	
Corrosion	External corrosion: <ul style="list-style-type: none"> Bare steel pipe (CP) Bare steel pipe (No CP) Wrapped steel pipe (CP) Wrapped steel pipe (No CP) CI pipe (Graphitization) 	<ul style="list-style-type: none"> -Increase frequency of leak surveys. -Replace, insert or rehab. -Provide hot spot protection (e.g., install anodes at anodic locations). -Correct cathodic protection deficiencies.
	Internal corrosion	<ul style="list-style-type: none"> -Increase frequency of leak surveys. -Install drips. -Install pipe liner. -Install moisture removal or control equipment. -Evaluate gas supply inputs and take corrective action with supplier.
	Atmospheric corrosion	<ul style="list-style-type: none"> -Coat (paint) the exposed pipe. -Increase survey frequency. -Replace or rehab. -Relocate.
Natural Forces	Outside force/weather: (e.g., earth movement, lighting, heavy rains/floods, temperature extremes, high winds) <ul style="list-style-type: none"> Steel pipe Plastic pipe Cast iron pipe 	<ul style="list-style-type: none"> -Relocate pipe from high risk locations. -Replace pipe in high risk locations -Install slip or expansion joints for earth movement. -Install strain gages on pipe. -Install automatic shut-offs. -Expand the use of excess flow valves. -Conduct leak survey after significant earthquake or other event.
Excavation Damage	<ul style="list-style-type: none"> Third-party damage Operator damage 	<ul style="list-style-type: none"> -Conduct enhanced awareness education. -Request regulatory intervention.

Table 5.1 – A/A, Prevention, Remediation, Mitigation		
Threats		Possible Actions
Primary	Subcategory	
		<ul style="list-style-type: none"> -Inspect targeted excavation and backfill activities. -Inspect for facility support. -Improve accuracy of line locating. -Participate in pre-construction meetings with project engineers and contractors in high risk areas. -Use warning tape. -Expand the use of excess flow valves. -Improve system map accuracy and availability. -Recruit support of public safety officials (e.g., fire departments). -Install additional line markers.
Other Outside Force Damage	Fire/explosion (primary)	<ul style="list-style-type: none"> -Provide first responder training. -Install curb valves. -Improve response capability. -Expand the use of excess flow valves.
	Vehicular	<ul style="list-style-type: none"> -Expand policy on when and how to install protection. -Increase frequency of patrols/inspections of high risk facilities. -Expand the use of excess flow valves.
	Leakage (previous damage)	<ul style="list-style-type: none"> -Inspect exposed pipe prior to backfill. -Increase frequency of leak surveys.
	Vandalism	<ul style="list-style-type: none"> -Install or improve fences/enclosures. -Increase surveillance. -Relocate hard-to-protect or critical facilities.
	Blasting	<ul style="list-style-type: none"> -Perform leak survey after blasting. -Relocate away from frequent blast areas (e.g., mines) -Replace with more ductile pipe material.
Material or Weld Failure	<ul style="list-style-type: none"> • Manufacturing defects • Construction/workmanship defects • Mechanical damage: <ul style="list-style-type: none"> >Steel pipe >Plastic pipe >Pipe components 	<ul style="list-style-type: none"> -Increase frequency of leak surveys. -Replace or repair. -Revise construction procedures. -Revise material standards. -Trend material failures.

Table 5.1 – A/A, Prevention, Remediation, Mitigation		
Threats		Possible Actions
Primary	Subcategory	
Equipment Malfunction	<ul style="list-style-type: none"> Malfunction of system equipment 	<ul style="list-style-type: none"> -Replace or repair. -Increase frequency of inspection/monitoring. -Investigate if a type of joint or equipment is being used in inappropriate situations/locations. -Improve installation procedure. -Trend equipment failure.
Inappropriate Operation	<ul style="list-style-type: none"> Inadequate procedures Inadequate safety practices Failure to follow procedures 	<ul style="list-style-type: none"> -Improve procedures. -Improve training. -Evaluate locations where inadequate practices may have been used. -Perform internal audits or inspections.
Other		<ul style="list-style-type: none"> -Increase frequency of leakage survey. -Increase odorant level. -Increase frequency of odorant testing. -Improve choices of odorant testing locations.

b. Leak Management Program

Ohio Rural Natural Gas's policy regarding leaks is to immediately repair all leaks when found. But in the event that it is not possible to do so, and because leak management should be a high priority concern for any distribution system, a Leak Management Program is in place as part of the DIMP. Company policies, and guidelines set forth by state, federal, and industry standards form the basis of the leak management program.

The basic elements of a leak management program include:

Locate the leaks in the distribution system;

Evaluate the actual or potential hazards associated with these leaks;

Act appropriately to mitigate these hazards;

Keep records; and

Self-assess to determine if additional actions are necessary to keep people and property safe.

1. **Locate the leaks.** Company personnel will be qualified to perform leak surveys, respond to odor complaint calls, and other relevant duties. They will use industry-approved equipment and techniques, while following ORNG policies to perform these tasks.

2. Evaluate the severity of leaks. Leaks will be evaluated according to industry-approved guidelines and/or additional specific State standards based on the potential hazard of the leak. This program defines the criteria for leak classification;

- Grade 1 Leak
 - A leak that represents an existing or probable hazard to persons or property, and requires immediate repair or continuous monitoring until the conditions are no longer hazardous.
- Grade 2 Leak
 - A leak that is non-hazardous at the time of detection, but justifies scheduled inspection and repair based on probable future hazard.
- Grade 3 Leak
 - A leak that is non-hazardous at the time of detection and can reasonably be expected to remain non-hazardous.

Re-inspections of Grade 2 and Grade 3 leaks shall be conducted according to ORNG's existing procedures.

Above Ground Leaks

The categorizations above allow us to determine occurrences of reportable hazardous leaks. Leaks on outside piping facilities can be detected with sight, sound, smell, or touch. In such a case, immediate evacuation would be necessary to protect the public.

Small leaks at the threads or fittings of sound piping may only be detectible with sensitive instruments or barely visible indications with leak detection soap. In such a case, the leak may be repaired immediately through minor adjustments of facilities or tightening of fittings. Such an instance would not be considered a reportable leak.

3. Act accordingly to mitigate the possible hazards associated with every leak. Once leaks are graded, follow company policies relevant to the grade.
4. Document and file all maintenance and inspection activities. All documentation should allow us to evaluate the efficiency of the leak management program.
5. The program will be periodically assessed to measure the effectiveness and determine if adjustments are necessary, and the type of adjustments to be made.

Below is some of the criteria used to evaluate the leak management program:

- Ensure that leak surveys are completed on time, per §192.723
- Verify that leak repairs and reevaluations are completed on time.
- Make sure that all leaks are repaired and cleared.
- Evaluate odor complaints to determine if there are any trends.
- Make certain that responses to odor complaints were timely.

- Review all actions which were taken to mitigate leaks.
- Attempt to recognize any trends in leak grading.
- Determine if there have been any incidents according to Federal or state definitions.
- Determine if there are any improvements to be made that could improve the program.

c. Primary Threats

Based on the risk calculation of Table 4.3 above, excavation damage and inappropriate operation have been noted as the two highest risks to the integrity of the Ohio Rural Natural Gas distribution system. While these two risks are still ranked low overall, they are the greatest perceived risks in relation to all other risks. Below is an overview of these higher ranking threats and the means by which ORNG will address them.

1. Excavation Damage

Excavation damage has received the highest risk ranking to the ORNG system. This is based primarily on knowledge of Subject Matter Experts who are veterans of the natural gas industry. As operations have not yet began on this distribution system, SME's are aware of contemporary trends in the natural gas industry which have indicated that excavation damage is the most common cause of hazardous leaks in a plastic distribution system. The following will provide a further in-depth description of the actions taken to prevent, mitigate, and remedy the risks involved with the threat of excavation damage to the system. These techniques were outline in the above Table 5.1:

- ❖ A Public Awareness program to comply with federal requirements of §192.616, §192.615, §192.614; which includes
 - Continuing educational actions to notify the public, government organizations, and excavators to recognize pipeline-related emergencies and to report them to the proper officials. This program is provided in English and any other language which may be spoken by a significant portion of the population where ORNG facilities are located.
 - Emergency responder liaison activities to establish and maintain a liaison with fire, police, and other appropriate public officials; and coordinate with them on preplanned and actual responses during an emergency.
 - Damage prevention plan to prevent damage to pipelines by excavation activities.
- ❖ Educating new and possible service customers about the importance of using the 8-1-1 system, and of recognizing and being aware of the location and properties of underground piping near their facilities. This includes providing educational information along with company documents, bill stuffers, and verbal discussions with company staff.

- ❖ Installing excess flow valves on all service lines to curtail the effects of severed pipe.
- ❖ Placing properly labeled line marker test points at frequent intervals, such as every 500 feet.
- ❖ Utilize technology to provide system mapping as accurately as possible.
- ❖ Hold pre-construction meetings with engineers, excavators, and city officials; and maintain communications throughout the course of new projects.
- ❖ Meet with administrators of facilities within Class 3, Class 4, or other high-risk locations to educate them.
- ❖ Assure that all employees and contractors operating on behalf of ORNG are operator qualified in all procedures they perform, including excavation and backfilling.

2. Inappropriate Operation

With a likelihood factor of 3, and the second highest relative risk of 27 (Per Table 4.3 above), Inappropriate Operation is currently the second highest perceived threat to the system. This is due to the circumstances under which approximately 13,728' of 4" PE was installed. This pipe was installed by a third party contractor prior to the development of an O.Q. program, and O&M manual by ORNG.

To address this issue, ORNG will evaluate the qualifications of the contractor after the development of its O.Q. plan, and investigate the procedures which were used by the contractor to ensure they comply with the O&M manual. If the contractor is found to not be qualified per ORNG's O.Q. plan, or if the procedures used are inappropriate per the O&M manual, the 13,728 feet of pipe will be removed or abandoned.

If the procedures used by the contractor are approved by ORNG per O.Q. and O&M, the pipeline will remain part of the ORNG system and eventually be utilized for distribution. At that point, the pipeline will be subjected to an increased frequency of leak surveys (4 times per year NTE 3 ½ months) and line patrols (4 times per year NTE 3 ½ months).

3. The remaining low threats have resulted in extremely low risk factors. The actions listed on Table 4.3 above will be performed to mitigate, curtail, and prevent the likelihoods of the threats occurring. These measures along with proper training, knowledge assessment, and professional duties of daily operations are estimated to keep other likelihood factors low in the foreseeable future.

6. Measure Performance, Monitor Results and Evaluate Effectiveness (§192.1007(e))

a. General

ORNG must measure its performances in order to determine whether risk management activities are effective or not. Each method used in measuring the performance will vary depending on the risk management technique used. Measurements may be conducted for specific sections of the system, or can cover the entire system. Information is to be gathered on an annual basis, and compared to previous years in order to recognize trends, and whether the integrity management is improving, staying the same, or getting worse.

The list below contains performance items that must be measured according to §192.1007(e):

1. Number of hazardous leaks either eliminated or repaired, per §192.703(c), categorized by cause;
2. Number of excavation damages;
3. Number of excavation tickets received by OUPS (local underground protection agency);
4. Number of excess flow valves installed;
5. Total number of leaks either eliminated or repaired, categorized by cause;
6. Number of hazardous leaks either eliminated or repaired per §192.703(c), categorized by material; and
7. Any additional measures to evaluate the effectiveness of the program in controlling each identified threat.

b. Guidelines for Developing Performance Measures

The following guidelines will be considered when developing or selecting performance measures:

1. Performance measures will address the specific risk management practices of the DIMP
2. Performance measures will be able to be counted, tracked, monitored, supported, and recorded.
3. The number of critical measurements will be kept to an effective minimum. Too many measurements can decrease the measurement's effectiveness and prevent us from properly determining their effectiveness.
4. Measurements will be recorded numerically in order to provide quantifiable, objective, and easily-interpreted results.
5. Possible non-numeric data can still be utilized to analyze the effectiveness of the performance measures or program performance.

c. Performance Measures

Below are examples of performance measures that may be used based on the eight primary threats. This list is not all inclusive and different situations may require the addition or deletion of performance measures for consideration.

1. Corrosion
 - a. Leaks due to internal or external corrosion.

- b. Exposed pipe reports that found corrosion or coating damage.
 - c. Repairs required due to non-leaking pitting or coating damage (above or below ground).
 - d. Low cathodic protection reading levels.
 - e. Areas of active corrosion found (unprotected pipe).
- 2. Natural Forces
 - a. Leaks due to weather or other natural forces.
 - b. Repair, replacement or relocation actions due to natural forces.
- 3. Excavation
 - a. Excavation caused damage (first/second/third party).
 - b. Normalized damages (damage ratio) defined as damages per 1000.
 - c. Ratio of ticket no-show to total tickets received by the operator.
 - d. Failure by notification center to accurately transmit tickets to the operator.
 - e. Damages by cause, facility type (mains, services) and responsible party. Cause categories may include the following.
 - 1. Excavator's failure to call.
 - 2. Excavator's failure to provide accurate ticket information.
 - 3. Operator's failure to mark.
 - 4. Operator's failure to mark accurately.
 - 5. Excavator's failure to wait required time for marking.
 - 6. Excavator's failure to protect marks.
 - 7. Excavator's failure to utilize precaution when excavating within the tolerance zone.
 - 8. Excavator's failure to properly and protect facility.
 - f. Leaks or failures on previously damaged pipe.
 - g. Repairs implemented as a result of first/second/third party damage prior to leak or failure.
 - h. Excavation notices versus number of locates (not all will require actual locate)
 - i. Locates timely or untimely made.
 - j. Negative callbacks timely or untimely made if state law, the one-call center, or another entity requires such calls.
 - k. Mis-locates later identified.
- 4. Other outside force damage
 - a. Leaks or failures caused, or repairs necessitated, by vandalism.
 - b. Leaks or failures caused, or repairs necessitated, by vehicular damage.
 - c. Instances of damage that is secondary to non-pipeline fire or explosion.
 - d. Leaks or failures on previously damaged pipe.
 - e. Leaks, failures, damage, or movement caused by blasting.
 - f. Leaks, failures, damage, or movement caused by heavy vehicle traffic over or near pipelines.
- 5. Material or welds
 - a. Pipe failures during pressure tests.
 - b. Joint failures during pressure tests.
 - c. In-service pipe or joint failures (not caused by outside forces or excavation damage).
 - d. Production joints rejected by an inspector other than the joiner.
 - e. Joiners failing re-qualification.

6. Equipment
 - a. Regulator failures.
 - b. Relief valve failures.
 - c. Seal, gasket or o-ring failure.
 - d. Regulators or relief valves found with set points outside of acceptable range.
 - e. Emergency valves found inoperable.
 - f. SCADA failures, system upsets, or false readings.
7. Operations
 - a. Service outages due to operator error.
 - b. Odor tests finding insufficient odorant.
 - c. Response times to leak or odor calls.
 - d. Hazardous leaks made safe or repair times.
8. Other – case by case determination

d. Monitor Results

The performance measures above will be monitored on an annual basis to determine if issues are remaining the same, increasing, or decreasing in frequency. This information will then be evaluated to determine the effectiveness of the DIMP. As 2015 is the first year of operations, there are no historical records to access in order to determine trends. 2015 will be the first year in which performance measures can be recorded. The table below shows how information will be gathered and recorded from year to year.

Primary Threat	Performance Measure	2015	2016	2017	2018	2019
Corrosion	Leaks due to internal or external corrosion					
	Exposed pipe reports that found corrosion or coating damage					
	Repairs required due to non-leaking pitted or coating damage					
	Low cathodic protection reading levels					
	Areas of active corrosion found					
Natural Forces	Leak due to weather or other natural forces					
	Repair, replacement or relocation actions due to natural forces					
Excavation	Excavation caused damage					
	Normalized damages defined as damages per 1000					
	Ratio of ticket no-show to total tickets received					
	Failure by notification center to accurately transmit tickets to the operator					
	Damages by cause, facility type and responsible party. Cause categories may include the following.					
	• Excavators failure to call					
	• Excavators failure to provide accurate ticket information					
	• Operators failure to mark					
	• Operators failure to mark accurately					
	• Excavators failure to wait required time for marking					
	• Excavators failure to protect marks					
	• Excavators failure to utilize precaution when excavating within the tolerance zone					
	• Excavators failure to properly protect facility					

Table 6.1 – Monitor Results						
Primary Threat	Performance Measure	2015	2016	2017	2018	2019
	Leaks or failures on previously damaged pipe					
	Repairs implemented as a result of first/second/third party damage prior to leak or failure					
	Excavation notices versus number of locates complete					
	Locates timely complete					
	Locates untimely made					
	Mis-locates later identified					
Other Outside Force Damage	Leaks or failures caused, or repairs necessitated by vandalism					
	Leaks or failures caused, or repairs necessitated by vehicular damage					
	Instances of damage that is secondary to non-pipeline fire or explosion					
	Leaks or failures on previously damaged pipe					
	Leaks, failures, damage, or movement caused by blasting					
	Leaks, failures, damage, or movement caused by heavy vehicle traffic over or near pipelines					
Material or Welds	Pipe failures during pressure tests					
	Joint failures during pressure tests					
	In-service pipe or joint failures					
	Production joints rejected by an inspector other than the joiner					
	Joiner failing re-qualification					
Equipment	Regulator failures					
	Relief valve failures					
	Seal, gasket or o-ring failure					
	Regulators or relief valves found with set points outside of acceptable range					
	Emergency valves found inoperable					
	SCADA failures, system upsets, or false readings					
Operations	Service outages due to operator failure					
	Odor tests finding insufficient odorant					
	Response times to leak or odor calls unacceptable					
	Hazardous leaks made safe repair times unacceptable					
Other	Case by case determination – if necessary					

e. Evaluate Effectiveness

DIMP effectiveness will be evaluated every 5 years. The results of the performance measures will be monitored to determine if the program is adequate, and what adjustments to the program are necessary.

The actual DIMP will be reviewed, and updated annually if necessary. The plan may require more frequent reviews if specific changes or circumstances require it.

7. Periodic Evaluation and Improvement (§192.1007(f))

An evaluation of the DIMP will be conducted annually, or more frequently should special circumstances require it. The review will ensure that all processes in the program are functioning and interacting properly. The accuracy and relevance of data will be looked at, and the overall effectiveness of the plan will be studied. All sections of the plan will be cross-referenced with system knowledge. The program itself will be reviewed, along with its effectiveness.

a. Review of Written Program

1. The written plan will be reviewed annually. Accurate and up-to-date information will be verified, and added. Any possible improvements will be considered.
2. All personnel not attending the review are to be notified by supervisors or attendees of the results of the review, and any changes to the plan.
2. In addition to the annual review, reviews at other points will be considered, such as special circumstances or major changes to the system such as pipe replacement, abandonment, or changes in MAOP.
3. If the program's performance measures require a change to be made to the plan, the changes will be implemented.
4. A log will be kept to document reviews, evaluations, and updates of the DIMP. The end of this section contains the review of previous years.
5. Pertinent regulatory agencies will be notified of major changes or updates to the plan via email or telephone contact, and a copy will be provided to them. Such changes could result either from routine annual reviews or required by special circumstances.

b. Review of Effectiveness

1. The use of performance measures' effectiveness will be reviewed on a timely basis. This will determine the effectiveness of risk management or accelerated actions taken.
2. During the review, we will analyze the information which was initially gathered to form the basis of the plan. This is information which was utilized to support the performance measures used for risk management. The veracity of the data collected, the method in which the data was collected, and the interpretation of the data collected will all be reviewed.
3. This review will be an opportunity to look at our performance measures and confirm whether or not they are adequate in providing sufficient information. Changes to which measures are performed and how they are performed may be made.
4. When evaluating the effectiveness of performance measures, it is important to recognize patterns, trends, and changes in the results of the implementation of the plan. Therefore it may take several years to properly assess and evaluate performance measure data. All performance measures will be reviewed at intervals not to exceed 5 years.

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8. Report Results (§192.1007(g))

a. General

Information that is required to be gathered for State and Federal annual reports will be gathered as efficiently and accurately as possible.

The information below is required to be reported to state and federal regulatory agencies annually, and is also required to be reported as per the DIMP. The form to be used for tracking the information in DIMP is located in the Forms section. The form used to report the information to state and federal authorities is the RSPA 7100 report, which is due annually by March 15th of the following reporting year. It is submitted to state agencies via email, traditional mail, or fax. The form is submitted to federal agencies via the official website.

1. Total Leaks Eliminated/Repaired by Cause
2. Number of Excavation Damages
3. Number of Locate Tickets
4. Number of EFVs Installed to Date
5. Mechanical Fitting Failures Resulting in a Hazardous Leak
6. Total Number of Leaks on Federal Land Repaired or Scheduled for Repair

b. What must an operator report when mechanical fittings fail? (§192.1009)

Mechanical fitting failures will be recorded and reported annually to PHMSA per §191.12. Section 9 contains the form utilized by Ohio Rural Natural Gas to record failures in mechanical fittings.

c. What records must an operator keep? (§192.1011)

Previous editions of the DIMP will be maintained for at least 10 years. They will be readily available in their entirety for viewing in either electronic or hard copy format.

9. Forms

Attached to the original, hard copy of this section are company documents and reports used to record information pertaining to the implementation of the DIMP, as well as that information required by State and Federal agencies.

Reporting Results

Reported Results (As provided on DOT annual 7100 Report)	Year				
	2015	2016	2017	2018	2019
Total Leaks Eliminated					
Excavation					
Corrosion					
Outside Forces					
Inappropriate Operations					
Natural Forces					
Material or Weld Failure					
Equip Malfunction					
Other					
Total Locate Tickets					
Number of EFV's Installed					
Mechanical Fitting Failures Causing Leaks					
# of Leaks on Federal land repaired or to be repaired					

OHIO RURAL NATURAL GAS

ABANDON/REPLACE/RELOCATE FACILITIES REPORT (§192.727)

System Name: _____ System No: _____ Taxing District: _____

Abandoned Pipeline

Location: _____ W.O.# When Installed (If Known) _____

Footage: _____ Size: _____ Type: ☐ Plastic ☐ Steel

Was Line Purged: ☐ yes ☐ no

If yes, what was the line purged with: ☐ Air ☐ Nitrogen ☐ Other _____

Were ends sealed: ☐ yes ☐ no

Were any service lines abandoned with main: ☐ yes ☐ no

If yes, list C.A.N. or address of service lines abandoned:

1. _____ 2. _____

3. _____ 4. _____

5. _____ 6. _____

Was any pipe removed: ☐ yes ☐ no If yes, Footage: _____ Size: _____

Abandoned Service Line

C.A.N. or Address: _____

Footage: _____ Size: _____ Type: ☐ Plastic ☐ Steel

Were ends sealed: ☐ yes ☐ no Was any pipe removed: ☐ yes ☐ no

Stations

☐ Relocated ☐ Removed Old Station Name _____ New Station Name _____

Old System Number _____ New System Number _____

REPLACEMENTS

Remove Key Valve# _____ Remove Cathodic TP# _____

Replacement Pipeline

Location: _____ W.O.# _____

Footage: _____ Size: _____ Type: ☐ Plastic ☐ Steel

Replacement Service Line

C.A.N. or Address (If same as abandoned service-leave blank): _____

Footage: _____ Size: _____ Type: ☐ Plastic ☐ Steel

Comments: _____

I certify that the above pipe was abandoned in accordance with O&M Plan Section 1.7.

Name: _____ Date: _____

Sketch Abandoned/Replaced/Relocated Facilities On The Back Of This Form

☐ ATTACH MAP OF FACILITIES (OLD & NEW) / FILE SERVICE WITH RSR & MAIN WITH W.O.#

☐ Copies: Mapping(main&service lines) – Accounting (mainline) – Navison (service line)

OHIO RURAL NATURAL GAS GAS LEAK AND REPAIR REPORT

Receipt of Report

Report No: _____

1) Report of Leakage No: _____

2) Other (describe): _____

Leak Data System Name: _____ System No: _____

Date leak was first reported: ____ / ____ / ____ Time: _____ Investigated By: _____

Location of the leak (*include sketch* with dimensions):

Describe in detail all information concerning this leak: _____

Before Sketch

Leak Grade (as recommended by GPTC Guide Appendix G-192-11)

Grade 1 ☐ (most severe) Requires prompt, continuous action.

Grade 2 ☐ Requires re-evaluation every 6 months, repair by 15 months.

Grade 3 ☐ (least severe) Requires re-evaluation every 15 months.

GMI/CGI Readings (Convert all reads to %Gas UEL) : (please indicate reading locations on sketch)

Highest %Gas Reading Level : _____

Document **ZERO READING DISTANCES**: N/S/E/W (4 Directions) from Highest Reading Location on **GRADE 2 & 3 LEAKS**:

Direction #1 : _____ Ft. Direction#2 : _____ Ft. Direction#3 : _____ Ft. Direction#4 : _____ Ft.

Leak Re-Evaluations (Convert all reads to %Gas UEL)

Date: _____ Highest Level: _____	Date: _____ Highest Level: _____	Date: _____ Highest Level: _____	Date: _____ Highest Level: _____
Direction1: _____ Direction2: _____	Direction1: _____ Direction2: _____	Direction1: _____ Direction2: _____	Direction1: _____ Direction2: _____
Direction3: _____ Direction4: _____	Direction3: _____ Direction4: _____	Direction3: _____ Direction4: _____	Direction3: _____ Direction4: _____
Grade: 1 2 3 By: _____	Grade: 1 2 3 By: _____	Grade: 1 2 3 By: _____	Grade: 1 2 3 By: _____

Date: _____ Highest Level: _____	Date: _____ Highest Level: _____	Date: _____ Highest Level: _____	Date: _____ Highest Level: _____
Direction1: _____ Direction2: _____	Direction1: _____ Direction2: _____	Direction1: _____ Direction2: _____	Direction1: _____ Direction2: _____
Direction3: _____ Direction4: _____	Direction3: _____ Direction4: _____	Direction3: _____ Direction4: _____	Direction3: _____ Direction4: _____
Grade: 1 2 3 By: _____	Grade: 1 2 3 By: _____	Grade: 1 2 3 By: _____	Grade: 1 2 3 By: _____

GAS LEAK AND REPAIR REPORT - Page 2

Leak caused by: ☐ Other Utility ☐ Vehicle Accident ☐ Property Owner ☐ Tenant/Renter ☐ Contractor
☐ Material or Welds ☐ Corrosion ☐ Other: _____

Damaging Party Information

Name: _____ Company Name: _____

Address: _____ Phone: _____

City/State/Zip: _____ Business Card Attached? ☐ yes ☐ no

Insurance Company: _____

Address: _____ Phone: _____

City/State/Zip: _____ Business Card Attached? ☐ yes ☐ no

Vehicle/Equipment Make: _____ Model: _____ License: _____ Color: _____

Accident Report #: _____

Working for: ☐ State ☐ County ☐ City ☐ Township ☐ Public Utility ☐ Self

☐ Other Contractor (Name) _____ ☐ Other (Name) _____

Damaging Party Additional Information

Was OUPS (811) contacted prior to work starting? ☐ yes ☐ no Ticket #: _____

Proposed excavation marked in white on arrival? ☐ yes ☐ no Accurately according to OUPS Ticket? ☐ yes ☐ no

Facilities located on arrival? ☐ yes ☐ no How was it located? ☐ Flags ☐ Paint ☐ Flags & Paint ☐ Other _____

Pictures taken of damaged area? ☐ yes ☐ no

Damaged Facilities Information

☐ Public Right of Way ☐ Private Right of Way ☐ Under Road ☐ Other _____

Pipe Size: _____ Pipe Pressure: _____ Size of Hole: _____ Duration of Gas Loss: _____

Line Type

Pipe Type

- | | |
|--|--|
| <input type="checkbox"/> Transmission | <input type="checkbox"/> Steel (<input type="checkbox"/> Fusion Bond Epoxy <input type="checkbox"/> Extrude Polyethylene <input type="checkbox"/> Tar & Wrap <input type="checkbox"/> Bare) |
| <input type="checkbox"/> Distribution (Main) | <input type="checkbox"/> Cast Iron |
| <input type="checkbox"/> Service Line | <input type="checkbox"/> Plastic (MFG: _____ Type: _____ SDR: _____ MFG Date: _____) |
| <input type="checkbox"/> Gathering Line | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Station | |
| <input type="checkbox"/> Meterset | |

Internal Inspection (if accessible)

Is the inside of the pipe accessible: ☐ yes ☐ no Any Fluid or Debris: ☐ yes ☐ no

Internal Condition: ☐ Smooth ☐ Pitted ☐ Depth of Pits _____

Internal Inspection

Pipe condition: ☐ Smooth ☐ Pitted ☐ Depth of Pits _____

Coating Type (if coated): _____ Condition: ☐ good ☐ fair ☐ poor

Repair Information

Describe repair in detail: _____

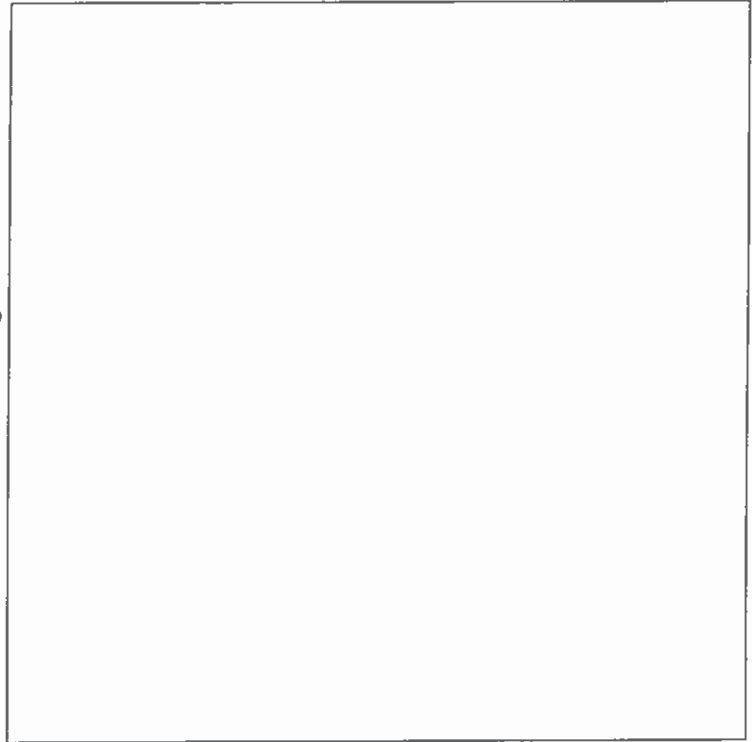
Backfill condition: ☐ good ☐ fair ☐ poor

Is this pipe under cathodic protection: ☐ yes ☐ no

New anodes installed: ☐ yes ☐ no

How many _____ Size _____

Repair Sketch Following DIMP Requirements



DIMP Requirements

Information gathered from existing facilities ☐ yes ☐ no

Information gathered from new facilities ☐ yes ☐ no

Repair Sketch area showing DIMP ☐ yes ☐ no

Repaired material GPS'ed ☐ yes ☐ no

_____aired by: _____

Date: _____

Test Data

☐ Retested: Test pressure: _____ Duration: _____

☐ Replaced: Test pressure: _____ Duration: _____

☐ Pretested (for mainline only - services must be replaced or retested): Pretested pipe number _____

Company performing test: _____

Inspected/approved by: _____ Date: _____

Follow-Up Leak Survey (required within 10 days on grade 1 leak repairs except for dig-ins)

Performed by: _____ Date: _____

Copy given to Mapping Department ☐ yes ☐ no Copy given to Inventory Department ☐ yes ☐ no

Ohio Rural Natural Gas
GAS LEAK AND REPAIR REPORT
Service Line ONLY

Receipt of Report

SL Report No: _____

1) Report Of Leakage No: _____

Leak Report Date: ____/____/____ Time Reported:____ Time Made Safe:____ Investigated By: _____

Leak Reported By: _____ Contact Info: _____

Leak Data System Name: _____ System No: _____

Did excavator call **911**? ____ Were other appropriate authorities at the location? ____ List authorities in repair detail.

Location of the leak (*include sketch* with dimensions) :

Leak Location SKETCH

If leakage was from a dig-in, was OUPS previously contacted: ☐ yes ☐ no

Describe in detail all information concerning this leak: _____

Leak Grade (as recommended by GPTC Guide Appendix G-192-11)

Grade 1 ☐ (most severe) Requires prompt, continuous action.

Grade 2 ☐ Requires re-evaluation every 6 months, repair by 15 months.

Grade 3 ☐ (least severe) Requires re-evaluation every 15 months.

GMI/CGI Readings (Convert all reads to %Gas UEL) : (please indicate reading locations on sketch)

Highest %Gas Reading Level : _____

Document **ZERO READING DISTANCES**: N/S/E/W (4 Directions) from Highest Reading Location on **GRADE 2 & 3 LEAKS**:

Direction #1 : _____ Ft. Direction#2 : _____ Ft. Direction#3 : _____ Ft. Direction#4 : _____ Ft.

Leak Re-Evaluations (Convert all reads to % gas UEL)

Date: _____ Highest Level: _____ Date: _____ Highest Level: _____ Date: _____ Highest Level: _____ Date: _____ Highest Level: _____

Directions (D)

D1: _____ D2: _____ D1: _____ D2: _____ D1: _____ D2: _____ D1: _____ D2: _____

D3: _____ D4: _____ D3: _____ D4: _____ D3: _____ D4: _____ D3: _____ D4: _____

Grade: 1 2 3 By: _____ Grade: 1 2 3 By: _____ Grade: 1 2 3 By: _____ Grade: 1 2 3 By: _____

By: _____

Leak cause: ☐ Corrosion ☐ Natural Forces ☐ Excavation ☐ Other outside force damage

☐ Material or Welds ☐ Equipment ☐ Operations ☐ Other: _____

Pipe Type _____ Pipe Size: _____ Is the pipe able to be located ☐ yes ☐ no
☐ Steel (☐ Fusion Bonded Epoxy ☐ Extruded Polyethylene ☐ Tar & Wrap ☐ Bare
☐ Cast Iron
☐ Plastic (MFG: _____ TYPE: _____ SDR: _____ MFG DATE: _____)
☐ Gathering
☐ Other

Internal Inspection (steel pipe only)

Is the inside of the pipe accessible: ☐ yes ☐ no Any Fluid: ☐ yes ☐ no
Internal Condition (if accessible): ☐ Smooth ☐ Pitted ☐ Depth of Pits _____

External Inspection (steel pipe only)

Is this pipe under cathodic protection: ☐ yes ☐ no
Pipe condition: ☐ Smooth ☐ Pitted ☐ Depth of Pits _____
Coating condition (if coated): ☐ good ☐ fair ☐ poor
Backfill condition: ☐ good ☐ fair ☐ poor
New anodes installed: ☐ yes ☐ no How many _____ Size _____
Location: _____

☐ Repaired Service ☐ Replaced Service

Performed by: _____ Date: _____

Describe Repair in detail: _____

Test Data

Tested: Test pressure: _____ Duration: _____ Sketch Old & New Facilities in the space provided here.

Company performing test: _____ Indicate pipe and fitting locations with measurements

Inspected/approved by: _____ Date: _____

Replacement Service Line Info

Main to curb footage: _____ Curb to meter footage: _____
Pipe Size: _____ Manufacturer: _____
Riser Size: _____ Manufacturer: _____
Number and Type of fittings: _____
Tracer wire footage: _____

Abandoned Service Line Info

Footage: _____ Size: _____ Type: ☐ Plastic ☐ Steel
e ends sealed: ☐ Yes ☐ No
Was any pipe removed: ☐ Yes ☐ No

Old & New Facility SKETCH

OHIO RURAL NATURAL GAS
INVESTIGATION OF FAILURE (§192.617)

Report No: _____

Description of Failure: _____

Failure Occurred During: ☐ Installation ☐ Upgrading ☐ Testing
 ☐ Normal Operations ☐ Other _____

Operating Pressure at Time of Failure: _____ Pressure Rating of Failed Component: _____

Reported By: _____ Date Of Failure: _____

Cause of Failure: _____

Required Changes: _____

Comments: _____

Investigated By: _____ Date: _____

OHIO RURAL NATURAL GAS LEAK SURVEY REPORT (§192.723)

System Name: _____ System No: _____

Area Covered: From: _____

To: _____

Is This Gas Odorized? (192.625): ☐ Yes ☐ No

Class Location: ☐ 1 ☐ 2 ☐ 3 ☐ 4

Survey Interval Required: ☐ Annual NTE 15 mo ☐ 3 Year ☐ 5 Year ☐ _____ Times Per Year

Type Of Detection Used: ☐ Flame Ionization ☐ CGI/Barhole ☐ Vegetation Survey ☐ Other _____

Were Any Leaks Discovered?: ☐ Yes ☐ No

Location	Grade	Gas Leak & Repair Report Number

Method used: ☐ Vehicle ☐ Walking ☐ Other: _____

Was there any construction along or near the pipeline system?: ☐ yes ☐ no

Were there any of the following unusual conditions found during the survey?:

☐ None Found ☐ Steams/Rivers ☐ Railroad ☐ Highway ☐ Foreign Pipeline ☐ Buildings ☐ Other: _____

Were there any conditions found that could affect the present or future safety of this system?: ☐ yes ☐ no

Are there missing line markers in this system?: ☐ yes ☐ no

If yes to any of the questions above, to whom was it reported: _____

Additional Comments: _____

Formed By: _____ Date: _____

OHIO RURAL NATURAL GAS LINE PATROL REPORT (§192.721)

System Name: _____

System No: _____

Area covered: From: _____

To: _____

System type: ☐ Distribution ☐ Transmission

Class location: ☐ 1 ☐ 2 ☐ 3 ☐ 4

Patrol frequency: ☐ 4 Times/yr ☐ 2 Times/yr ☐ Annual

☐ 5 years ☐ Other _____

Method used to patrol: ☐ Truck ☐ Walk ☐ Other: _____

Were any leaks found: ☐ yes ☐ no

If yes, gas leak and repair report no: _____

Was there any construction along or near the pipeline system: ☐ yes ☐ no

If yes, give reference to nearest line marker or address: _____

Are there any unusual conditions found at any of the following places:

☐ None Found

☐ Steams/Rivers

☐ Railroad

☐ Highway

☐ Foreign Pipeline

☐ Buildings

Other: _____

Are there any factors that could affect the present or future safety of this system: ☐ yes ☐ no

If yes, explain: _____

Are there missing line markers anywhere in the system?: ☐ yes ☐ no

If yes, give location: _____

If yes to any above question, to whom was it reported: _____

Comments: _____

Performed By: _____

Date: _____

OHIO RURAL NATURAL GAS ODOR COMPLAINT REPORT

Report No: _____
Leak & Repair Report No: _____

Caller's Name: _____ Phone: _____

Location(or address) _____ System # _____

Section #1: Odor Complaint (Do NOT use this section to document a leak call – Use Section #2 for leakage)

- 1) Is the smell inside or outside (circle one)? _____
- 2) Can you smell the gas now? Y N
- 3) How long have you smelled gas? _____
- 4) Can you hear any gas? Y N
- 5) Is there a contractor working in the area? Y N
- 6) Additional Info: _____

*If the caller indicates a very strong odor inside, advise them to lay down the phone – do not operate anything electrical or flammable (i.e. lights, flashlights, candles, matches, telephone, etc...) and then vacate the premises. Tell them to leave the home unlocked and a service technician will arrive ASAP. Is the caller following these instructions? Yes No (faint odor) NA (outside leak)

Section #2: Pipeline or Station Leak Complaint

- 1) Is the pipeline or station on fire? Y N
- 2) Is the pipeline or station blowing gas now? Y N
- 3) How bad is the gas blowing? _____
- 4) Is the gas being freely vented? Y N
- 5) How close is the nearest building? _____
- 6) Does the road(driveway, yard, etc.)need barricaded? Y N
- 7) Was anyone injured? Y N
- 8) Did you call OUPS? Y N Ticket Info: _____
- 9) Was excavator instructed to promptly report damage to 911? Y N (only if harmful or endangering life)
- 10) Additional Info: _____

Section #3: C.O. Complaint

- 1) Do you smell a sharp pungent odor? Y N
- 2) Do you burn wood/coal/kerosene? Y N
- 3) Symptoms:Headache/Dizzy/Nausea/None
- 4) CO detector alarming: How long? _____
Detector Type: _____ How old? _____
- 5) Caller advised to consult a doctor? Y N
- 6) Additional Info: _____

*If caller has any symptoms, do step 5

Received By: _____ Date: ____/____/____ Time: _____

Investigated By: _____ Date: ____/____/____ Time: _____

Made Safe By: _____ Date: ____/____/____ Time: _____

Describe actions taken (use back of form if needed):

Use this box to grade any non-hazardous leaks on stations and meter sets. Document all other leaks on Gas Leak and Repair Form.

NON-HAZARDOUS STATION OR METERSSET LEAKAGE GRADE: GRADE2 GRADE3 LEAK REPAIRED? Y N

OHIO RURAL NATURAL GAS SYSTEM TURN-ON REPORT

Team Name: _____

System No: _____

County: _____

Township: _____

Jurisdictional Telephone Numbers

Fire Department: _____

Emergency: _____

Address: _____

Business No: _____

Law Enforcement: _____

Emergency: _____

Address: _____

Business No: _____

Turn-On Data

Date of Turn-On: _____

By: _____

Odorant Level: _____ %

By: _____

CGI Reading: _____ % Gas

By: _____

Comments: _____

*Attach maps or drawings of new facilities along with any other pertinent information

Comments should include purging details (e.g. Pipe Size, Time of Purge, Location(s) of Purge, Total CF Purged)

OHIO RURAL NATURAL GAS PIPELINE INSPECTION REPORT

System Name: _____ System No: _____

Location or Area Uncovered (GPS Coordinates using Longitude & Latitude) _____

Line Type Pipe Type Pipe Size: _____ Is the pipe able to be located ☐ yes ☐ no
☐ Transmission ☐ Steel (☐ Fusion Bonded Epoxy ☐ Extruded Polyethylene ☐ Tar & Wrapped ☐ Bare)
☐ Distribution ☐ Cast Iron
☐ Service Line ☐ Plastic (MFG _____ Type _____ SDR _____ MFG Date _____)
☐ Gathering ☐ Other

Internal Inspection

Is the inside of the pipe accessible: ☐ yes ☐ no

Internal Condition (if accessible): ☐ Smooth ☐ Pitted ☐ Depth of Pits _____

Any Fluid: ☐ yes ☐ no Type: _____

External Inspection

Is this pipe under cathodic protection: ☐ yes ☐ no

Internal condition: ☐ Smooth ☐ Pitted ☐ Depth of Pits _____

Coating condition (if coated): ☐ good ☐ fair ☐ poor

Backfill condition: ☐ good ☐ fair ☐ poor

New anodes installed: ☐ yes ☐ no How many _____ Size _____

New Anode Location: _____

Location Sketch w/Measurements:



What other corrective measures were taken if needed: _____

Comments: _____

Performed By: _____ Date: _____

[illegible]

Critical Valve Inspection Report (\$192.747, \$192.181)

Inspection Frequency: Once every calendar year, NTE 15 months

m Name _____

System Number _____

[illegible]

Comments

System#:

Material List-DIMP

Company

Inventory Ticket No.

Odor/Gas L&R Reference No.

Project Name or Address

Date

WO Number

Starting Point:

(once from
next intersection)

Soil Type

Sand

Loam

Clay

Rock

Slurry

Main Line or Service Line

Install Method

Trench

Bore

Insert

HDPE

(Circle)

(Circle)

(Circle)

WFI? - Withdrawl From Inventory?

Item	Station Start at 0+00	C/L Distance	Item Number	Pipe Footage	WFI?	Manufacturer	Part#	Type/Size	Mfg Date	Lot Number	SDR	PE Type
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												

Note: Footage Column is for wire and pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry in

Completion Sketches

Project Name 0

WO Number

0

TIE-IN DETAIL SKETCH

TIE-IN DETAIL SKETCH

Indicate North on Sketches

Date

PROJECT SKETCH

Ohio Rural Natural Gas
INVESTIGATION OF
MECHANICAL FITTING FAILURE (§192.1009)

Date of Failure: _____

Report No: _____

Description of Failure: _____

Mechanical Fitting Involved: ☐ Stab ☐ Nut Follower ☐ Bolted ☐ Other Compression Type Fitting: _____

Type of Mechanical Fitting: ☐ Service or Main Tee ☐ Tapping Tee ☐ Transition Fitting ☐ Coupling ☐ Riser
☐ Adapter ☐ Valve ☐ Sleeve ☐ End Cap ☐ Other: _____

Leak Location: ☐ Aboveground or ☐ Belowground ☐ Inside or ☐ Outside
☐ Main-to-Main or ☐ Main-to-Service or ☐ Service-to-Service or ☐ Meter Set

Year Installed: _____ Year Manufactured: _____ If both is unknown, Provide Decade Installed: _____

Manufacturer: _____ Part or Model Number: _____ Lot Number: _____

Other Attributes: _____

(If "Manufacturer / Part or Model Number / Lot Number cannot be identified, enter "Unknown")

Fitting Material: ☐ Steel ☐ Plastic ☐ Combination Plastic & Steel ☐ Brass ☐ Unknown ☐ Other: _____

SPECIFY THE TWO MATERIALS BEING JOINED:

a) First Pipe:

Nominal Size: ☐ ¼" ☐ ½" ☐ ¾" ☐ 1" ☐ 1-1/4" ☐ 1-1/2" ☐ 1-3/4" ☐ 2" ☐ 3" ☐ 4" ☐ 6" ☐ 8" or larger

Unit: ☐ IPS ☐ CTS ☐ NPS

Material: ☐ Steel ☐ Cast/Wrought Iron ☐ Ductile Iron ☐ Copper ☐ Plastic ☐ Unknown ☐ Other: _____

IF PLASTIC: ☐ Polyethylene(PE) ☐ Polyvinyl Chloride(PVC) ☐ Cross-Linked Polyethylene(PEX)

☐ Polybutylene(PB) ☐ Polypropylene(PP) ☐ Acrylonitrile Butadiene Styrene (ABS) ☐ Polyamide(PA)

☐ Cellulose Acetate Butyrate(CAB) ☐ Other(Specify): _____

b) Second Pipe

Nominal Size: ☐ ¼" ☐ ½" ☐ ¾" ☐ 1" ☐ 1-1/4" ☐ 1-1/2" ☐ 1-3/4" ☐ 2" ☐ 3" ☐ 4" ☐ 6" ☐ 8" or larger

Unit: ☐ IPS ☐ CTS ☐ NPS

Material: ☐ Steel ☐ Cast/Wrought Iron ☐ Ductile Iron ☐ Copper ☐ Plastic ☐ Unknown ☐ Other: _____

IF PLASTIC: ☐ Polyethylene(PE) ☐ Polyvinyl Chloride(PVC) ☐ Cross-Linked Polyethylene(PEX)

☐ Polybutylene(PB) ☐ Polypropylene(PP) ☐ Acrylonitrile Butadiene Styrene (ABS) ☐ Polyamide(PA)

☐ Cellulose Acetate Butyrate(CAB) ☐ Other(Specify): _____

Apparent Cause of Leak:

☐ Corrosion ☐ Other Outside Force Damage ☐ Equipment ☐ Incorrect Operation

☐ Natural Forces (Was there thermal expansion/contraction? Yes No)

☐ Excavation Damage (Time excavation damage occurred: ☐ At time of leak discovery ☐ Previous to leak discovery)

☐ Material or Welds/Fusions (Was leak due to ☐ Construction/Install Defect ☐ Material Defect ☐ Design Defect)

☐ Other (Explain: _____)

How did the leak occur? ☐ Leaked Through Seal ☐ Leaked Through Body ☐ Pulled Out

Comments: _____

Investigated By: _____

Date: _____

10. Part 192 Subpart P – Gas Distribution Pipeline Integrity Management

Subpart P—Gas Distribution Pipeline Integrity Management (IM)

Source: 74 FR 63934, Dec. 4, 2009, unless otherwise noted.

§ 192.1001 What definitions apply to this subpart?

The following definitions apply to this subpart:

Excavation Damage means any impact that results in the need to repair or replace an underground facility due to a weakening, or the partial or complete destruction, of the facility, including, but not limited to, the protective coating, lateral support, cathodic protection or the housing for the line device or facility.

Hazardous Leak means 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.

Integrity Management Plan or *IM Plan* means a written explanation of the mechanisms or procedures the operator will use to implement its integrity management program and to ensure compliance with this subpart.

Integrity Management Program or *IM Program* means an overall approach by an operator to ensure the integrity of its gas distribution system.

Small LPG Operator means an operator of a liquefied petroleum gas (LPG) distribution pipeline that serves fewer than 100 customers from a single source.

§ 192.1003 What do the regulations in this subpart cover?

General. This subpart prescribes minimum requirements for an IM program for any gas distribution pipeline covered under this part, including liquefied petroleum gas systems. A gas distribution operator, other than a master meter operator or a small LPG operator, must follow the requirements in §§192.1005–192.1013 of this subpart. A master meter operator or small LPG operator of a gas distribution pipeline must follow the requirements in §192.1015 of this subpart.

§ 192.1005 What must a gas distribution operator (other than a master meter or small LPG operator) do to implement this subpart?

No later than August 2, 2011 a gas distribution operator must develop and implement an integrity management program that includes a written integrity management plan as specified in §192.1007.

§ 192.1007 What are the required elements of an integrity management plan?

A written integrity management plan must contain procedures for developing and implementing the following elements:

(a) *Knowledge.* An operator must demonstrate an understanding of its gas distribution system developed from reasonably available information.

(1) Identify the characteristics of the pipeline's design and operations and the environmental factors that are necessary to assess the applicable threats and risks to its gas distribution pipeline.

(2) Consider the information gained from past design, operations, and maintenance.

(3) Identify additional information needed and provide a plan for gaining that information over time through normal activities conducted on the pipeline (for example, design, construction, operations or maintenance activities).

(4) Develop and implement a process by which the IM program will be reviewed periodically and refined and improved as needed.

(5) Provide for the capture and retention of data on any new pipeline installed. The data must include, at a minimum, the location where the new pipeline is installed and the material of which it is constructed.

(b) *Identify threats.* The operator must consider the following categories of threats to each gas distribution pipeline: Corrosion, natural forces, excavation damage, other outside force damage, material, weld or joint failure (including compression coupling), equipment failure, incorrect operation, and other concerns that could threaten the integrity of its pipeline. An operator must consider reasonably available information to identify existing and potential threats. Sources of data may include, but are not limited to, incident and leak history, corrosion control records, continuing surveillance records, patrolling records, maintenance history, and excavation damage experience.

(c) *Evaluate and rank risk.* An operator must evaluate the risks associated with its distribution pipeline. In this evaluation, the operator must determine the relative importance of each threat and estimate and rank the risks posed to its pipeline. This evaluation must consider each applicable current and potential threat, the likelihood of failure associated with each threat, and the potential consequences of such a failure. An operator may subdivide its pipeline into regions with similar characteristics (e.g., contiguous areas within a distribution pipeline consisting of mains, services and other appurtenances; areas with common materials or environmental factors), and for which similar actions likely would be effective in reducing risk.

(d) *Identify and implement measures to address risks.* Determine and implement measures designed to reduce the risks from failure of its gas distribution pipeline. These measures must include an effective leak management program (unless all leaks are repaired when found).

(e) *Measure performance, monitor results, and evaluate effectiveness.*

(1) Develop and monitor performance measures from an established baseline to evaluate the effectiveness of its IM program. An operator must consider the results of its performance monitoring in periodically re-evaluating the threats and risks. These performance measures must include the following:

(i) Number of hazardous leaks either eliminated or repaired as required by §192.703(c) of this subchapter (or total number of leaks if all leaks are repaired when found), categorized by cause;

(ii) Number of excavation damages;

(iii) Number of excavation tickets (receipt of information by the underground facility operator from the notification center);

(iv) Total number of leaks either eliminated or repaired, categorized by cause;

(v) Number of hazardous leaks either eliminated or repaired as required by §192.703(c) (or total number of leaks if all leaks are repaired when found), categorized by material; and

(vi) Any additional measures the operator determines are needed to evaluate the effectiveness of the operator's IM program in controlling each identified threat.

(f) *Periodic Evaluation and Improvement.* An operator must re-evaluate threats and risks on its entire pipeline and consider the relevance of threats in one location to other areas. Each operator must determine the appropriate period for conducting complete program evaluations based on the complexity of its system and changes in factors affecting the risk of failure. An operator must conduct a complete program re-evaluation at least every five years. The operator must consider the results of the performance monitoring in these evaluations.

(g) *Report results.* Report, on an annual basis, the four measures listed in paragraphs (e)(1)(i) through (e)(1)(iv) of this section, as part of the annual report required by §191.11. An operator also must report the four measures to the state pipeline safety authority if a state exercises jurisdiction over the operator's pipeline.

§ 192.1009 What must an operator report when compression couplings fail?

Each operator must report, on an annual basis, information related to failure of compression couplings, excluding those that result only in non-hazardous leaks, as part of the annual report required by §191.11 beginning with the report submitted March 15, 2011. This information must include, at a minimum, location of the failure in the system, nominal pipe size, material type, nature of failure including any contribution of local pipeline environment, coupling manufacturer, lot number and date of manufacture, and other information that can be found in markings on the failed coupling. An operator also must report this information to the state pipeline safety authority if a state exercises jurisdiction over the operator's pipeline.

§ 192.1011 What records must an operator keep?

An operator must maintain records demonstrating compliance with the requirements of this subpart for at least 10 years. The records must include copies of superseded integrity management plans developed under this subpart.

§ 192.1013 When may an operator deviate from required periodic inspections under this part?

(a) An operator may propose to reduce the frequency of periodic inspections and tests required in this part on the basis of the engineering analysis and risk assessment required by this subpart.

(b) An operator must submit its proposal to the PHMSA Associate Administrator for Pipeline Safety or, in the case of an intrastate pipeline facility regulated by the State, the appropriate State agency. The applicable oversight agency may accept the proposal on its own authority, with or without conditions and limitations, on a showing that the operator's proposal, which includes the adjusted interval, will provide an equal or greater overall level of safety.

(c) An operator may implement an approved reduction in the frequency of a periodic inspection or test only where the operator has developed and implemented an integrity management program that provides an equal or improved overall level of safety despite the reduced frequency of periodic inspections.

§ 192.1015 What must a master meter or small liquefied petroleum gas (LPG) operator do to implement this subpart?

(a) *General.* No later than August 2, 2011 the operator of a master meter system or a small LPG operator must develop and implement an IM program that includes a written IM plan as specified in paragraph (b) of this section. The IM program for these pipelines will reflect the relative simplicity of these types of pipelines.

(b) *Elements.* A written integrity management plan must address, at a minimum, the following elements:

(1) *Knowledge.* The operator must demonstrate knowledge of its pipeline, which, to the extent known, will include the approximate location and material of its pipeline. The operator must identify additional information needed and provide a plan for gaining knowledge over time through normal activities conducted on the pipeline (for example, design, construction, operations or maintenance activities).

(2) *Identify threats.* The operator must consider, at minimum, the following categories of threats (existing and potential): Corrosion, natural forces, excavation damage, other outside force damage, material or weld failure, equipment failure, and incorrect operation.

(3) *Rank risks.* The operator must evaluate the risks to its pipeline and estimate the relative importance of each identified threat.

(4) *Identify and implement measures to mitigate risks.* The operator must determine and implement measures designed to reduce the risks from failure of its pipeline.

(5) *Measure performance, monitor results, and evaluate effectiveness.* The operator must monitor, as a performance measure, the number of leaks eliminated or repaired on its pipeline and their causes.

(6) *Periodic evaluation and improvement.* The operator must determine the appropriate period for conducting IM program evaluations based on the complexity of its pipeline and changes in factors affecting the risk of failure. An operator must re-evaluate its entire program at least every five years. The operator must consider the results of the performance monitoring in these evaluations.

(c) *Records.* The operator must maintain, for a period of at least 10 years, the following records:

(1) A written IM plan in accordance with this section, including superseded IM plans;

(2) Documents supporting threat identification; and

(3) Documents showing the location and material of all piping and appurtenances that are installed after the effective date of the operator's IM program and, to the extent known, the location and material of all pipe and appurtenances that were existing on the effective date of the operator's program.

11. **GPTC Guide Material Appendix G-192-8 (Provided in original hard copy of current revision of DIMP)**

GUIDE MATERIAL APPENDIX G-192-8

(See §§192.1001, 192.1003, 192.1005, 192.1007, 192.1009, 192.1011, 192.1015, and
Guide Material Appendix G-192-8A)

DISTRIBUTION INTEGRITY MANAGEMENT PROGRAM (DIMP)

CONTENTS

1 INTRODUCTION

- 1.1 Scope.*
- 1.2 Glossary of abbreviations.*
- 1.3 How to use this guide material.*
- 1.4 Overview.*

2 ELEMENTS OF A DISTRIBUTION INTEGRITY MANAGEMENT PLAN

- 2.1 General.*
- 2.2 Develop and implement a written plan.*

3 KNOWLEDGE

- 3.1 General.*
- 3.2 DOT Annual Report information.*
- 3.3 Additional information.*
- 3.4 Knowledge of what is physically happening in the system.*
- 3.5 Documentation.*

4 IDENTIFY THREATS

- 4.1 Primary threats.*
- 4.2 Identify threats.*
- 4.3 Sample threat identification method.*

5 EVALUATE AND RANK RISK

- 5.1 General.*
- 5.2 Information evaluation.*
- 5.3 Methods.*
- 5.4 Example of risk evaluation.*
- 5.5 Validation.*

6 IDENTIFY AND IMPLEMENT MEASURES TO ADDRESS RISKS

- 6.1 General.*
- 6.2 Leak Management Program.*
- 6.3 A/A actions.*

7 MEASURE PERFORMANCE, MONITOR RESULTS, AND EVALUATE EFFECTIVENESS

- 7.1 Guidelines for developing performance measures.*
- 7.2 Examples of performance measures.*

8 PERIODIC EVALUATION AND IMPROVEMENT

- 8.1 Review of the written plan.*
- 8.2 Review of effectiveness.*

9 REPORT RESULTS

OHIO RURAL NATURAL GAS CONTINUING SURVEILLANCE REPORT (§192.613)

Inspection Frequency: Once per calendar year, NTE 15 months

System Name: _____

System No: _____

Facility Or Area Covered: _____

	Yes	No
1) Are any updates required in the class locations listed for this facility in the current O&M Plan?	<input type="checkbox"/>	<input type="checkbox"/>
2) Have there been any failures or incidents associated with this facility?	<input type="checkbox"/>	<input type="checkbox"/>
3) Has there been an unusual leakage history for this facility since the last continuing surveillance was performed?	<input type="checkbox"/>	<input type="checkbox"/>
4) Are there any apparent corrosion or corrosion control problems?	<input type="checkbox"/>	<input type="checkbox"/>
5) Have there been any substantial changes in cathodic protection requirements since the last annual surveillance?	<input type="checkbox"/>	<input type="checkbox"/>
6) Have any abnormal pressures or pressure differentials been observed?	<input type="checkbox"/>	<input type="checkbox"/>
7) Are there high levels of construction activity that may effect the integrity of the system?	<input type="checkbox"/>	<input type="checkbox"/>
8) Are there any landslips, streams or rivers that may effect the integrity of the system?	<input type="checkbox"/>	<input type="checkbox"/>
9) Have any unusual fluid accumulations been observed?	<input type="checkbox"/>	<input type="checkbox"/>
10) Are there any changes required in the MAOP listed for this facility in the current O&M Plan?	<input type="checkbox"/>	<input type="checkbox"/>
11) Have there been any changes in the odorization requirements?	<input type="checkbox"/>	<input type="checkbox"/>
12) Are any changes necessary in the leakage survey requirements as outlined in the current O&M Plan?	<input type="checkbox"/>	<input type="checkbox"/>
13) Are there any designated buildings in this system that need to be added to system records?	<input type="checkbox"/>	<input type="checkbox"/>
14) Are more critical valves needed to safely operate the system?	<input type="checkbox"/>	<input type="checkbox"/>
15) Do critical valve maps need updated?	<input type="checkbox"/>	<input type="checkbox"/>
16) Have there been any regulatory changes that will affect the current O&M Plan?	<input type="checkbox"/>	<input type="checkbox"/>
17) Have there been any other changes or observations that may affect the safe operation or integrity of this facility?	<input type="checkbox"/>	<input type="checkbox"/>

If the answer to any of the above questions is yes, please describe the condition in detail, list what actions were taken and what updates were made to the current O&M Plan, if any.

Performed By: _____

Date: _____

Previous Insp. Date: _____

OHIO RURAL NATURAL GAS REGULATOR & RELIEF VALVE INSPECTION REPORT (§192.739)

System Name: _____ System No: _____ Station Name: _____
☐ Work Performed: ☐ Initial Turn-On ☐ Periodic Inspection ☐ Maint
Regulator Type: ☐ Town Border ☐ District Regulator ☐ Service Regulator
Inspection Interval: ☐ Annual NTE 15 mo. ☐ 120 months
☐ 24 months ☐ 24 month pressure check only**
☐ 60 months ☐ Other _____

PRESSURE RECORDER CALIBRATION SECTION

Recorder Type: ☐ MiniMax ☐ RTU ☐ Recorder ☐ Transmitter/Transducer
Model: _____ Serial No: _____ Range: _____

	Pressure				
	0%	10%	50%	100%	Actual
Test (PSIG/F)					
In-Test					
Out-Test					
% Error In					
% Error Out					

REGULATOR SECTION

Make: _____ Model: _____ Make: _____ Model: _____
Orif. Size: _____ Spring Color / Range: _____ Orif. Size: _____ Spring Color / Range: _____
☐ Control ☐ Monitor ☐ First Cut ☐ Parallel ☐ Control ☐ Monitor ☐ First Cut ☐ Parallel
Station Inlet Pressure: _____ MAOP Inlet/Outlet: _____ Station Inlet Pressure: _____ MAOP Inlet/Outlet: _____
Set Point (as found): Flowing: _____ Lockup: _____ Set Point (as found): Flowing: _____ Lockup: _____
Set Point (as left): Flowing: _____ Lockup: _____ Set Point (as left): Flowing: _____ Lockup: _____
**Billing Pressure _____ P.F. _____ S.N. _____ Confirmed With Billing? ☐ YES ☐ NO ☐ N/A

	YES	NO	N/A		YES	NO	N/A
Regulators checked for leakage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Control lines properly valved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regulators fully stroked	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Control lines adequately protected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tight lockup achieved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All bug vents installed and clear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regulator disassembled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Inlet & outlet station valves operated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regulator rebuilt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Station adequately supported	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pilot condition checked	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Station adequately painted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

RELIEF VALVE SECTION

Make: _____ Model: _____ Make: _____ Model: _____
Pressure Set(as found): _____ Pressure Set(as left): _____ Pressure Set(as found): _____ Pressure Set(as left): _____
Was valve partially operated? ☐ Yes ☐ No Was valve partially operated? ☐ Yes ☐ No
Does valve have bubble tight shut off? ☐ Yes ☐ No Does valve have bubble tight shut off? ☐ Yes ☐ No
Are there any changes to the system that would affect the original calculations? ☐ Yes ☐ No

If any problems or abnormalities were found, please explain: _____

Performed By: _____ Date: _____

OHIO RURAL NATURAL GAS TEST REPORT

System Name: _____ System No: _____ Job Name: _____ W.O. #: _____

Description of Area Tested: _____

County: _____ Twp: _____ Date Installed(Begin): _____ (End): _____

Mainline Size(s) _____ Wall Thickness & Grade(Steel) _____

SDR(Plastic) _____ PE _____ Total Feet _____

Services Tested With Main (addresses) _____

Service Line Size(s) _____ Total Service Line Feet _____

Service Line Wall Thickness & Grade(Steel) _____ SDR(Plastic) _____ PE _____

Appurtenances: No. of valves _____ Type of valves _____ Lowest Pressure Rating _____

No. of flanges _____ Lowest Pressure Rating _____

No. of drips/filters _____ Lowest Pressure Rating _____

No. of fittings _____ Lowest Pressure Rating _____

☐ Gauge ☐ Chart Recorder 0 to _____ Pressure Range ☐ Dead Weight

Instrumentation:

☐ Other _____ Gauge/Recorder S.N.& Calib.Date: _____

Test Medium: ☐ Nitrogen ☐ Air ☐ Natural Gas ☐ Water ☐ Other

Test Date/Time Started: _____ Test Type: ☐ Initial ☐ Retest

Test Date/Time Stopped: _____ Duration: _____

Test Pressure Start: _____ Test Pressure Stop: _____

Reason for Line Loss: _____ Corrective Measures Taken: _____

Was The Line Pigged ? ☐ Y ☐ N

Comments: _____

Tested By: _____ Test Witnessed By: _____

Test Approved: ☐ Yes ☐ No By(manager or supervisor): _____

Required attachments to Test Report: ☐ Inventory List Copies ☐ As-Built/GPS note Copies

| 10 REPORT FITTING FAILURES

11 SAMPLE DIMP APPROACHES

11.1 *SME approach.*

11.2 *Mathematical approach.*

1 INTRODUCTION

1.1 Scope.

- (a) This guide material is intended to assist operators with development of a Distribution Integrity Management Program (DIMP), including the written plan, and compliance with Federal Regulations §§192.1001, 192.1003, 192.1005, 192.1007, 192.1009, 192.1011, and 192.1015 on DIMP. It provides operators with practices that may be considered as they develop and maintain a DIMP specific to their gas distribution systems.
- (b) Distribution pipeline systems and associated operating practices can vary widely. Examples of system differences include: materials used, age, manner of construction, operation and maintenance practices, and operating environments (natural and man-made). This guidance recognizes that there is wide diversity among distribution systems and is therefore flexible, allowing operators to identify considerations dealing with their unique threats and to select actions suited to their specific needs.
- (c) The options in this guidance are intended to provide the operator with a selection of possible choices to use in improving the integrity of its distribution system. Operators may not need to consider or perform every step presented. It is not intended that an operator evaluate every option or provide justification or reasons why options were not implemented.
- (d) Section 192.1015 imposes different requirements for small liquefied petroleum gas (LPG) operators (i.e., those serving fewer than 100 customers from a single source) and master meter operators. Since these pipeline systems are less complex, the integrity management requirements are simplified. The appropriate portions of this guide material are valid for those operators. PHMSA-OPS has published "Guidance for Master Meter and Small Liquefied Petroleum Gas Pipeline Operators" to assist operators of these systems to implement requirements of the DIMP rule, which can be found at:
primis.phmsa.dot.gov/dimp/docs/GuidanceForMasterMeterAndSmallLiquefiedPetroleumGasPipelineOperators_11_09.pdf.

1.2 Glossary of Abbreviations.

Abbreviation	Meaning
A/A	additional or accelerated (actions)
CP	cathodic protection
LPG	liquefied petroleum gas
PE	polyethylene
SCADA	supervisory control and data acquisition
SDR	standard dimension ratio
SME	subject matter expert

1.3 How to use this guide material.

The guide material is organized to coincide with the seven required elements of a DIMP. The order in which the guidance is presented does not imply the order in which it should be applied. However, the operator needs to address each element in some way. Once an operator determines how it can best accomplish distribution system integrity, the guide material may be used to support or direct the operator's approach. The operator is cautioned that the guide material may not anticipate all conditions that may be encountered, and the operator is not restricted from using other methods to comply with the Regulations.

Two sample DIMP approaches are given in Section 11.

1.4 Overview.

- (a) The objective of a DIMP is to manage the integrity of a gas distribution system. As discussed in detail in Section 5, an essential part of a DIMP is a risk evaluation of the distribution system. One approach to risk evaluation is to group facilities by common traits or problems, and then perform a risk ranking. This process allows the grouping of facilities that experience similar threats to be risk-ranked together. Then, if necessary, attention can be focused on developing measures that address the greatest risks.
- (b) After identifying the problems, the operator should consider the concept of grouping facilities when first developing its DIMP. Such groupings could significantly affect how the operator assembles data about its system (see Section 3) and how it approaches its threat analysis (see Section 4).
- (c) The operator should also recognize that the development of the DIMP may be an iterative (or repeating) process. That means each time a cycle (e.g., gather knowledge, identify threats, rank risks, take action to reduce risk, measure performance) is completed, areas needing additional data, analyses, or actions may become apparent. For example, the initial general knowledge of the system may be used to group facilities, identify the applicable threats, and begin the risk analysis. In attempting to complete the risk analysis, the operator may determine the need for additional information. The operator may also determine that the facility groupings need to be redefined, such as by subdividing groups or combining groups.

2 ELEMENTS OF A DISTRIBUTION INTEGRITY MANAGEMENT PLAN

2.1 General.

Seven elements have been identified as the essential components of a DIMP, except as modified for those operators identified in §192.1015(a). Collectively, these elements establish a program that should reasonably manage the integrity of distribution pipeline systems on a going-forward basis. These elements are as follows.

- (a) Knowledge (see Section 3).
- (b) Identify threats (see Section 4).
- (c) Evaluate and rank risk (see Section 5).
- (d) Identify and implement measures to address risks (see Section 6).
- (e) Measure performance, monitor results, and evaluate effectiveness (see Section 7).
- (f) Periodic evaluation and improvement (see Section 8).
- (g) Report results, except for master meter and small LPG operators (see Section 9).

2.2 Develop and implement a written plan.

Federal Regulations require that each distribution operator prepare and implement a written plan as a primary component of its DIMP. The function of the plan is to document how each of the applicable seven elements will be addressed and implemented. The DIMP should be complete and address required elements by the implementation dates in §§192.1005 and 192.1015. The plan should be concise, but still be sufficient for operator personnel to understand and implement the program on a consistent basis, and is not intended to include extensive technical justifications or detailed process descriptions.

3 KNOWLEDGE

3.1 General.

- (a) Information, such as the materials and type of construction, the operating conditions of the pipe or facility, and other relevant factors within the surroundings in which the system operates, is referred to as the "knowledge of the distribution system."

10 REPORT FITTING FAILURES

- (a) Except for master meter or small LPG operators, operators are required by §192.1009 to submit a report on each mechanical fitting failure, excluding any failure that results only in a nonhazardous leak, in accordance with §191.12. (Note: *Hazardous leak and mechanical fitting* are defined in §192.1001.)
- (b) See §191.12.

11 SAMPLE DIMP APPROACHES

11.1 SME approach.

Because this approach relies more on personnel knowledge and experience, operators of smaller, less complex systems may find it more appropriate.

- (a) Identify distribution system problems that have occurred and relate these to the eight identified primary threat categories. An operator may choose to break down the primary threat categories into subcategories for more effective understanding and focus.
- (b) Use the knowledge and experience of SMEs and other available information to understand the distribution system and its associated operating and maintenance experience.
- (c) Use the identified threats and associated consequences, evaluate and rank the involved risks.
- (d) If additional or accelerated risk management measures are needed, take reasonable actions to address the targeted risks.
- (e) Establish performance measures for key risk management activities and monitor accordingly.
- (f) Periodically evaluate performance measure trends and indications. Change program procedures or activities as needed.
- (g) Report information as required.

11.2 Mathematical approach.

This approach may require more rigorous segmentation or grouping of specific information. Thus it may be more suited for operators with records and mapping information tracked electronically.

- (a) Identify and gather available information about the distribution system and its associated operating and maintenance experience.
- (b) Establish criteria for identifying facilities or groups of facilities within the distribution system. Then, using the knowledge and experience of SMEs together with other available information, decide which factors (e.g., pipeline traits, threats, consequences, environments) are associated with each identified facility or group of facilities. An operator may choose to break down the primary threat categories into subcategories for more effective understanding and focus.
- (c) Assign weighting values to relevant factors involved and using a mathematical tool, analyze and establish a risk score for each facility or group of facilities. Based on calculated scores and supplemental considerations from SMEs, the facilities or groups of facilities can be ranked accordingly.
- (d) For facilities or groups of facilities where further risk reduction is needed, implement activities that the operator believes will best achieve the desired results.
- (e) Identify and track performance measures to determine whether the efforts to manage targeted risks are effective.
- (f) Periodically evaluate performance measure trends and indications and change program procedures or activities as needed.
- (g) Report information as required.

Reserved

GUIDE MATERIAL APPENDIX G-192-8A

(See §§192.1001, 192.1003, 192.1005, 192.1007, 192.1011, 192.1015, and
Guide Material Appendix G-192-8)

DISTRIBUTION INTEGRITY MANAGEMENT PROGRAM (DIMP) CROSS-REFERENCES TO RELEVANT GUIDE MATERIAL

Guide Material Appendix G-192-8, "Distribution Integrity Management Program (DIMP)" contains guide material for complying with the DIMP requirements. It contains Table 4.1 – "Sample Threat Identification Method," which is a table that lists "Primary Threats, Threat Subcategories, and Questions to Check Subcategory Applicability to System." This Guide appendix follows the format of that table and references the other existing guide material sections that may be of assistance in the development of a written integrity management plan.

Primary Threat	Threat Subcategories	Section	Title
ALL	All	603	General provisions
		605	Procedural manual for operations, maintenance, and emergencies
		613	Continuing surveillance
		615	Emergency plans
		616	Public awareness
		617	Investigation of failures
		625	Odorization of gas
		627	Tapping pipelines under pressure
		703	General
		721	Distribution systems: Patrolling
		723	Distribution systems: Leakage surveys
		727	Abandonment or deactivation of facilities
		GMA G-191-3	Distribution System Annual Report
		GMA G-192-11	Gas Leakage Control Guidelines For Natural Gas Systems (Methane)
		GMA G-192-11A	Gas Leakage Control Guidelines For Petroleum Gas Systems
CORROSION	External corrosion: bare steel pipe (CP or no CP)	14	Conversion to service subject to this part
		53	General
		452	How does this subpart apply to converted pipelines and regulated onshore gathering lines?
		453	General
		455	External corrosion control: Buried or submerged pipelines installed after July 31, 1971
		457	External corrosion control: Buried or submerged pipelines installed before August 1, 1971
		459	External corrosion control: Examination of buried pipeline when exposed
		461	External corrosion control: Protective coating
		463	External corrosion control: Cathodic protection
		465	External corrosion control: Monitoring

Primary Threat	Threat Subcategories	Section	Title
CORROSION (Continued)	External corrosion: bare steel pipe (CP or no CP) (Continued)	467	External corrosion control: Electrical isolation
		469	External corrosion control: Test stations
		471	External corrosion control: Test leads
		473	External corrosion control: Interference currents
		483	Remedial measures: General
		487	Remedial measures: Distribution lines other than cast iron or ductile iron lines
		489	Remedial measures: Cast iron and ductile iron pipelines
		491	Corrosion control records
		Appendix D	Criteria for Cathodic Protection and Determination of Measurements
	External corrosion: cast iron pipe (graphitization)	14	Conversion to service subject to this part
		452	How does this subpart apply to converted pipelines and regulated onshore gathering lines?
		453	General
		455	External corrosion control: Buried or submerged pipelines installed after July 31, 1971
		457	External corrosion control: Buried or submerged pipelines installed before August 1, 1971
		459	External corrosion control: Examination of buried pipeline when exposed
		461	External corrosion control: Protective coating
		463	External corrosion control: Cathodic protection
		465	External corrosion control: Monitoring
		467	External corrosion control: Electrical isolation
		471	External corrosion control: Test leads
		473	External corrosion control: Interference currents
		483	Remedial measures: General
		487	Remedial measures: Distribution lines other than cast iron or ductile iron lines
		489	Remedial measures: Cast iron and ductile iron pipelines
		491	Corrosion control records
		GMA G-192-18	Cast Iron Pipe
	External corrosion: coated & wrapped steel pipe (CP or no CP)	14	Conversion to service subject to this part
		53	General
		452	How does this subpart apply to converted pipelines and regulated onshore gathering lines?
		453	General
		455	External corrosion control: Buried or submerged pipelines installed after July 31, 1971

Primary Threat	Threat Subcategories	Section	Title
CORROSION (Continued)	External corrosion: coated & wrapped steel pipe (CP or no CP) (Continued)	457	External corrosion control: Buried or submerged pipelines installed before August 1, 1971
		459	External corrosion control: Examination of buried pipeline when exposed
		461	External corrosion control: Protective coating
		463	External corrosion control: Cathodic protection
		465	External corrosion control: Monitoring
		467	External corrosion control: Electrical isolation
		469	External corrosion control: Test stations
		471	External corrosion control: Test leads
		473	External corrosion control: Interference currents
		483	Remedial measures: General
		487	Remedial measures: Distribution lines other than cast iron or ductile iron lines
		489	Remedial measures: Cast iron and ductile iron pipelines
		491	Corrosion control records
	Other metallic materials	---	---
	Internal corrosion	14	Conversion to service subject to this part
		53	General
		452	How does this subpart apply to converted pipelines and regulated onshore gathering lines?
		453	General
		475	Internal corrosion control: General
		477	Internal corrosion control: Monitoring
	Atmospheric corrosion	14	Conversion to service subject to this part
		452	How does this subpart apply to converted pipelines and regulated onshore gathering lines?
		453	General
		479	Atmospheric corrosion control: General
		481	Atmospheric corrosion control: Monitoring
NATURAL FORCE (e.g., earth movement, lightning, heavy rains/floods, temperature extremes, high winds)	Outside forces/weather: steel pipe	103	General
		105	Design formula for steel pipe
		145	Valves
		155	Welded branch connections
		157	Extruded outlets
		159	Flexibility
		161	Supports and anchors
		181	Distribution line valves
		199	Requirements for design of pressure relief and limiting devices

Primary Threat	Threat Subcategories	Section	Title
NATURAL FORCE (e.g., earth movement, lightning, heavy rains/floods, temperature extremes, high winds) (Continued)	Outside forces/weather: steel pipe (Continued)	317	Protection from hazards
		355	Customer meters and regulators: Protection from damage
		357	Customer meters and regulators: Installation
		365	Service lines: Location of valves
		367	Service lines: General requirements for connections to main piping
		GMA G-192-13	Considerations To Minimize Damage By Outside Forces
		GMA G-192-15A	Horizontal Directional Drilling (HDD) for Steel Pipelines
	Outside forces/weather: plastic pipe	59	Plastic pipe
		161	Supports and anchors
		193	Valve installation in plastic pipe
		317	Protection from hazards
		367	Service lines: General requirements for connections to main piping
		381	Service lines: Excess flow valve performance standards
		GMA G-192-13	Considerations To Minimize Damage By Outside Forces
		GMA G-192-15B	Horizontal Directional Drilling (HDD) for Plastic Pipe
	Outside forces/weather: cast iron pipe	145	Valves
		147	Flanges and flange accessories
		151	Tapping
		159	Flexibility
		161	Supports and anchors
		181	Distribution line valves
		317	Protection from hazards
		755	Protecting cast-iron pipelines
		GMA G-192-13	Considerations To Minimize Damage By Outside Forces
		GMA G-192-18	Cast Iron Pipe
EXCAVATION DAMAGE	Operator (or its contractor)	---	---
	Third-party	161	Supports and anchors
		181	Distribution line valves
		381	Service lines: Excess flow valve performance standards
		459	External corrosion control: Examination of buried pipeline when exposed
		614	Damage prevention program
		GMA G-192-13	Considerations To Minimize Damage By Outside Forces
		GMA G-192-15	Design of Uncased Pipeline Crossings of Highways and Railroads
		GMA G-192-18	Cast Iron Pipe
		GMA G-192-6	Substructure Damage Prevention Guidelines For Directional Drilling and Other Trenchless Technologies

Primary Threat	Threat Subcategories	Section	Title
OTHER OUTSIDE FORCE DAMAGE	Vehicular	317	Protection from hazards
		353	Customer meters and regulators: Location
		355	Customer meters and regulators: Protection from damage
		GMA G-192-13	Considerations To Minimize Damage By Outside Forces
	Vandalism	GMA G-192-13	Considerations To Minimize Damage By Outside Forces
	Fire explosion (primary)	GMA G-192-13	Considerations To Minimize Damage By Outside Forces
	Leakage (previous damage)	---	---
	Blasting	103	General
		145	Valves
		155	Welded branch connections
		613	Continuing surveillance
		616	Public awareness
		GMA G-192-13	Considerations To Minimize Damage By Outside Forces
		GMA G-192-16	Substructure Damage Prevention Guidelines (Blasting Operations)
	Mechanical damage	GMA G-192-6	Substructure Damage Prevention Guidelines For Directional Drilling and Other Trenchless Technologies
		GMA G-192-13	Considerations To Minimize Damage By Outside Forces
		GMA G-192-16	Substructure Damage Prevention Guidelines (Blasting Operations)
MATERIAL OR WELD	Manufacturing defects	59	Plastic pipe
		311	Repair of plastic pipe
		747	Valve maintenance: Distribution systems
	Materials/Plastic	59	Plastic pipe
		311	Repair of plastic pipe
	Weld/Joint	---	---
EQUIPMENT FAILURE	System equipment	181	Distribution line valves
		195	Protection against accidental over pressuring
		197	Control of the pressure of gas delivered from high-pressure distribution systems
		199	Requirements for design of pressure relief and limiting devices
		201	Required capacity of pressure relieving and limiting stations
		355	Customer meters and regulators: Protection from damage
		623	Maximum and minimum allowable operating pressure: Low-pressure distribution systems
		739	Pressure limiting and regulating stations: Inspection and testing
		741	Pressure limiting and regulating stations: Telemetry or recording gages

Primary Threat	Threat Subcategories	Section	Title
EQUIPMENT FAILURE (Continued)	System equipment (Continued)	743	Pressure limiting and regulating stations: Capacity of relief devices
		747	Valve maintenance: Distribution systems
		749	Vault maintenance
		751	Prevention of accidental ignition
INCORRECT OPERATION	Inadequate procedures	187	Vaults: Sealing, venting, and ventilation
		189	Vaults: Drainage and waterproofing
		193	Valve installation in plastic pipe
		195	Protection against accidental over pressuring
		197	Control of the pressure of gas delivered from high-pressure distribution systems
		201	Required capacity of pressure relieving and limiting stations
		203	Instrument, control, and sampling pipe and components
		229	Limitations on welders
		235	Preparation for welding
		273	General
		279	Copper pipe
		281	Plastic pipe
		283	Plastic pipe: Qualifying joining procedures
		285	Plastic pipe: Qualifying persons to make joints
		307	Inspection of materials
		309	Repair of steel pipe
		311	Repair of plastic pipe
		319	Installation of pipe in a ditch
		321	Installation of plastic pipe
		325	Underground clearance
		353	Customer meters and regulators: Location
		355	Customer meters and regulators: Protection from damage
		357	Customer meters and regulators: Installation
		361	Service lines: Installation
		363	Service lines: Valve requirements
		365	Service lines: Location of valves
		367	Service lines: General requirements for connections to main piping
		375	Service lines: Plastic
		377	Service lines: Copper
		629	Purging of pipelines
		739	Pressure limiting and regulating stations: Inspection and testing
		743	Pressure limiting and regulating stations: Capacity of relief devices
		Subpart N	Qualification of Pipeline Personnel
		GMA G-192-12	Planned Shutdown
		GMA G-192-15	Design of Uncased Pipeline Crossings of Highways and Railroads

Primary Threat	Threat Subcategories	Section	Title
INCORRECT OPERATION (Continued)	Inadequate safety practices	381	Service lines: Excess flow valve performance standards
		383	Excess flow valve installation
	Failure to follow procedures	321	Installation of plastic pipe
		623	Maximum and minimum allowable operating pressure: Low-pressure distribution systems
		739	Pressure limiting and regulating stations: Inspection and testing
		741	Pressure limiting and regulating stations: Telemetry or recording gages
		749	Vault maintenance
		751	Prevention of accidental ignition
	Construction/workmanship defects	14	Conversion to service subject to this part
		123	Design limitations for plastic pipe
		145	Valves
		147	Valves
		183	Vaults: Structural design requirements
		187	Vaults: Sealing, venting, and ventilation
		193	Valve installation in plastic pipe
		227	Qualification of welders
		229	Limitations on welders
		235	Preparation for welding
		241	Inspection and test of welds
		243	Nondestructive testing
		245	Repair or removal of defects
		279	Copper pipe
		281	Plastic pipe
		283	Plastic pipe: Qualifying joining procedures
		309	Repair of steel pipe
		311	Repair of plastic pipe
		313	Bends and elbows
		321	Installation of plastic pipe
		623	Maximum and minimum allowable operating pressure: Low-pressure distribution systems
		739	Pressure limiting and regulating stations: Inspection and testing
		741	Pressure limiting and regulating stations: Telemetry or recording gages
		749	Vault maintenance
		751	Prevention of accidental ignition
		GMA G-192-15	Design of Uncased Pipeline Crossings of Highways and Railroads
		GMA G-192-15A	Horizontal Directional Drilling (HDD) for Steel Pipelines
		GMA G-192-15B	Horizontal Directional Drilling (HDD) for Plastic Pipe
		GMA G-192-20	Fusion Equipment Maintenance / Repair Inspection Form
OTHER		181	Distribution line valves
		GMA G-192-11A	Gas Leakage Control Guidelines For Petroleum Gas Systems

Material List - DIMP



System _____
 Work Order Number _____
 Date _____
 Project Name or Address _____

12321 Carter Rd Dowd

Starting Point:
 (Distance from
 nearest intersection)

Item #	Station Start at 0+00	C/L Distance	Sand	Loam	Clay	Rock	Slurry	Main Line or Service Line (Circle)	Install Method (Circle)	Trench	Bore	Insert	HDD
1	0+00												
2	0+01												
3	0+01												
4				130'									
5				130'									
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													

Note: Footage Column is for pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

Material List - DIMP



System _____
 Work Order Number _____
 Date 9/26/2015
 Project Name or Address 12321 Carter Rd Dowd

Starting Point:
 (Distance from
 nearest intersection)

Line Item	Station Start at 0+00	C/L Distance	Item Number	Pipe Footage	WFI?	Manufacturer	Part#	Type/Size	Mfg Date	Lot Number	Bore	Insert	HDD
1	0+00	31'				Muelle		2" tee 1"					
2	0+01	32'				Marys	605	2" 60' reducer					
3	0+01	32'				Balon USA		2" valve	10-12	2 F-US33-BW			
4	0+01	32'		13'		Sch 80 1"							
5	0+14	46'				Weldend		90°		WPB12305			
6	0+14	46'		3.5'		Sch 80 1"							
7	0+14	46'				Weldend		90°					
8	0+14	46'				National USA		Drip		WPB12305			
9	0+14	46'				Farm Tap				Ser # J2559			
10	0+15	47'				Elster		Riser Seal 1" cts					
11	0+15	47'				Elster		Adapter		00002422389			
12				130'		Control		1" STD n Pipe					
13				130'		WVC							
14						Elster		Riser Seal 1" cts					
15						Elster		Adapter		00002422389			
16													
17													
18													
19													
20													
21													
22													
23													
24													

Note: Footage Column is for pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

Company:

X

Brainard

Materials Withdrawn From:

X

Mentor

Installed Date
of Laborers
Hours on Job
Subcontractor
Hours on Job

3-9-15
3
3
DM EXCAVATING
8

Service line Material List

Item Number	Qty./Ft.	Type/Size	Manufacturer	Mfg. Date	Lot Number	SDR	PE Type
1317	75	PE 2406 1" Pipe CTS	PolyPipe	6-14	00000001	11	2406
47	75	12 Gauge T/Wire					
520		1" Prefab Mtr Set	ITRON	10-14			
846		MTG Hardware					
314		Riser	Pref	11-13-14	712004		2406
1731		Adapters	ESSEX	11-20-14	59652		
918		4x1 T/TEE	CEMEX	3-15	324019		2406
		EFV 800	Pearns feet	3-2-14	2436747		2406

Common 1" CTS Yellow 2406 Items

Item Number	Qty./Ft.	Type/Size	Manufacturer	Mfg Date	Lot Number	SDR	PE Type
1317		Pipe, PE 2406 1" CTS					2406
47		Standard 12 Gauge Tracer Wire					
1759		Tracer Wire Splice Kit					
1662		2 X 1 E/F Tap Tee W/ EFV 800					2406
1731		4 X 1 E/F Tap Tee W/ EFV 800					2406
354		6 X 1 E/F Tap Tee					2406
918		EFV 800 Series					2406
634		Coupler, Stab 1" CTS/CTS					2406
314		Riser, 1" CTS Steel Anodless					2406
718		Riser, 1" CTS Flex					2406
520		1" Prefab Meter Set					2406
315		Bracket, Wall Type 6"					
846		Wall Mounting Hardware					

Note: Footage Column is for wire and pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

Service Line Installation Information

Utility Company:

Brainard	X
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Materials Withdrawn From:

Mentor	X
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Installed Date

of Laborers

Hours on Job

Subcontractor

Hours on Job

16
3-0-15

2

3

DM EXCAVATING

8

Service Line Material List

Item Number	Qty./Ft.	Type/Size	Manufacturer	Mfg. Date	Lot Number	SDR	PE Type
1317	135	PE 2406 1" Pipe CTS	PolyPipe	6-14	00000214	11	2406
47	135	12 Gauge T/Wire					
520		1" Prefab Meter Set	ITRON	10-14			
846		MTG Hardware					
314		Riser	Perf	11-13-14	752004		2406
		Adapters	ENGL	11-20-14	59652		
1731		4' x 1" T/Tee	CENTRAL	3-15	324019		2406
918		EFV 800	PermaSeal	3-3-14	2436347		2406

Common 1" CTS Yellow 2406 Items

Item Number	Qty./Ft.	Type/Size	Manufacturer	Mfg Date	Lot Number	SDR	PE Type
1317		Pipe, PE 2406 1" CTS					2406
47		Standard 12 Gauge Tracer Wire					
1759		Tracer Wire Splice Kit					
1662		2 X 1 E/F Tap Tee W/ EFV 800					2406
1731		4 X 1 E/F Tap Tee W/ EFV 800					2406
354		6 X 1 E/F Tap Tee					2406
918		EFV 800 Series					2406
634		Coupler, Stab 1" CTS/CTS					2406
314		Riser, 1" CTS Steel Anodless					2406
718		Riser, 1" CTS Flex					2406
520		1" Prefab Meter Set					
315		Bracket, Wall Type 6"					
846		Wall Mounting Hardware					

Note: Footage Column is for wire and pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

Service Line Installation Information

Utility Company:

Brainard	X
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Materials Withdrawn From:

Mentor	X
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Installed Date

3-21-15

of Laborers

2

Hours on Job

3

Subcontractor

DM EXCAVATING

Hours on Job

8

Service line Material List

Item Number	Qty./Ft.	Type/Size	Manufacturer	Mfg. Date	Lot Number	SDR	PE Type
1317	100	PE 2406 1" Pipe CTS	PolyPipe	6-14	0000211	11	2406
47	100	12 Gauge T/Wire					
520		1" Prefab Meter Set	1 TRAN	10-14	1		
846		MTG Hardware					
314		Riser	Pent PERMA	11-13-14	712004		2406
1731		Adaptor	ELSER	11-20-14	59652		
918		4x1 T/Tee	CENTRAL	3-15	324019		2406
		EFV 800	Perma sent	3-3-14	2436247		2406

Common 1" CTS Yellow 2406 Items

Item Number	Qty./Ft.	Type/Size	Manufacturer	Mfg Date	Lot Number	SDR	PE Type
1317		Pipe, PE 2406 1" CTS					2406
47		Standard 12 Gauge Tracer Wire					
1759		Tracer Wire Splice Kit					
1662		2 X 1 E/F Tap Tee W/ EFV 800					2406
1731		4 X 1 E/F Tap Tee W/ EFV 800					2406
354		6 X 1 E/F Tap Tee					2406
918		EFV 800 Series					2406
634		Coupler, Stab 1" CTS/CTS					2406
314		Riser, 1" CTS Steel Anodless					2406
718		Riser, 1" CTS Flex					2406
520		1" Prefab Meter Set					
315		Bracket, Wall Type 6"					
846		Wall Mounting Hardware					

Note: Footage Column is for wire and pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

Service Line Installation Information

Utility Company:

X

Brainard

Materials Withdawn From:

X

Mentor

Installed Date

3-9-15

of Laborers

3

Hours on Job

3

Subcontractor

DM EXCAVATING

Hours on Job

8

Service line Material List

Item Number	Qty./Ft.	Type/Size	Manufacturer	Mfg. Date	Lot Number	SDR	PE Type
1317	150	PE 2406 1" Pipe CTS	PolyPipe	6-14	000000214	11	2406
47	150	12 Gauge T/Wire					
520		1" Prefab Meter Set	ITRON	10-14			
846		MTG. Hardware					
314		Riser	Purf	11-13-14	71200		2406
1731		Adapters	ESPE	11-10-14	59652		
918		4x1 T/Tee	CENTRAL	3-15	324019		2406
		EFV 800	PEANARUT	3-3-14	2436247		2406

Common 1" CTS Yellow 2406 Items

Item Number	Qty./Ft.	Type/Size	Manufacturer	Mfg. Date	Lot Number	SDR	PE Type
1317		Pipe, PE 2406 1" CTS					2406
47		Standard 12 Gauge Tracer Wire					
1759		Tracer Wire Splice Kit					
1662		2 X 1 E/F Tap Tee W/ EFV 800					2406
1731		4 X 1 E/F Tap Tee W/ EFV 800					2406
354		6 X 1 E/F Tap Tee					2406
918		EFV 800 Series					2406
634		Coupler, Stab 1" CTS/CTS					2406
314		Riser, 1" CTS Steel Anodless					2406
718		Riser, 1" CTS Flex					2406
520		1" Prefab Meter Set					
315		Bracket, Wall Type 6"					
846		Wall Mounting Hardware					

Note: Footage Column is for wire and pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

Service Line Installation Information

by Company:

☒

Brainard

Materials Withdrawn From:

Mentor

☒

Installed Date

3-9-15

of Laborers

3

Hours on Job

3

Subcontractor

DM EXCAVATING

Hours on Job

8

Service line Material List

Item Number	Qty./Ft.	Type/Size	Manufacturer	Mfg. Date	Lot Number	SDR	PE Type
1317	125	PE 2406 1" Ripe CTS	Poly Pipe	6-14	00000001	11	2406
47	125	12 Gauge T/Wire					
520		1" Prefab MTA Set	1 TRON	10-14			
846		MTG Hardware					
314		RISER	Pref	11-13-14	712000		2406
		ADAPTER	ELK	11-20-14	59652		
1731		4 X 1 T/Tee	CENTRAL	3-15	324015		2406
918		EFV 800	Pennafont	3-3-14	2476747		2406

Common 1" CTS Yellow 2406 Items

Item Number	Qty./Ft.	Type/Size	Manufacturer	Mfg Date	Lot Number	SDR	PE Type
1317		Pipe, PE 2406 1" CTS					2406
47		Standard 12 Gauge Tracer Wire					
1759		Tracer Wire Splice Kit					
1662		2 X 1 E/F Tap Tee W/ EFV 800					2406
1731		4 X 1 E/F Tap Tee W/ EFV 800					2406
354		6 X 1 E/F Tap Tee					2406
918		EFV 800 Series					2406
634		Coupler, Stab 1" CTS/CTS					2406
314		Riser, 1" CTS Steel Anodless					2406
718		Riser, 1" CTS Flex					2406
520		1" Prefab Meter Set					
315		Bracket, Wall Type 6"					
846		Wall Mounting Hardware					

Note: Footage Column is for wire and pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

* CV2-00

Inspection Frequency: Once every calendar year, NTE 15 months

System Number TI-002
LEROY Ohio

[illegible]

Comments

PIN# 08A-009-0-00-025-0

Critical Valve Inspection Report (§192.747, §192.181)

Inspection Frequency: Once every calendar year, NTE 15 months

System Name Dowd
System Number 12321 CARTER RD

System Number T1-002

[illegible]

Comments:

OHIO RURAL NATURAL GAS

REGULATOR & RELIEF VALVE INSPECTION REPORT (\$192.739)

System Name: Dowd System No: T1-002 Station Name: CARTER RD Dowd
 Work Performed: ☒ Initial Turn-On ☒ Periodic Inspection ☐ Maint
 Regulator Type: ☐ Town Border ☐ District Regulator ☐ Service Regulator
 Inspection Interval: ☐ Annual NTE 15 mo. ☐ 120 months
☐ 24 months ☐ 24 month pressure check only**
☐ 60 months ☐ Other _____

PRESSURE RECORDER CALIBRATION SECTION

Recorder Type: ☐ MiniMax ☐ RTU ☐ Recorder ☐ Transmitter/Transducer
 Model: _____ Serial No: _____ Range: _____

	Pressure				
	0%	10%	50%	100%	Actual
Test (PSIG/F)					
In-Test					
Out-Test					
% Error In					
% Error Out					

REGULATOR SECTION

Make: Fisher Model: 627R Make: _____ Model: _____
 Orif. Size: 1/18 Spring Color / Range: GREEN 15-40 Orif. Size: _____ Spring Color / Range: _____
☐ Control ☐ Monitor ☒ First Cut ☐ Parallel ☐ Control ☐ Monitor ☐ First Cut ☐ Parallel
 Station Inlet Pressure: 263.22 MAOP Inlet/Outlet: 25 Station Inlet Pressure: _____ MAOP Inlet/Outlet: _____
 Set Point (as found): Flowing: 25 Lockup: 31 Set Point (as found): Flowing: _____ Lockup: _____
 Set Point (as left): Flowing: 25 Lockup: 31 Set Point (as left): Flowing: _____ Lockup: _____
 **Billing Pressure _____ P.F. _____ S.N. _____ Confirmed With Billing? ☐ YES ☐ NO ☐

	YES	NO	N/A		YES	NO	N/A
Regulators checked for leakage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Control lines properly valved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regulators fully stroked	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Control lines adequately protected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tight lockup achieved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All bug vents installed and clear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regulator disassembled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Inlet & outlet station valves operated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regulator rebuilt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Station adequately supported	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pilot condition checked	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Station adequately painted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

RELIEF VALVE SECTION

Make: Fisher Model: 289H Make: _____ Model: _____
 Pressure Set(as found): 30 Pressure Set(as left): 30 Pressure Set(as found): _____ Pressure Set(as left): _____
 Was valve partially operated? ☒ Yes ☐ No Was valve partially operated? ☐ Yes ☐ No
 Does valve have bubble tight shut off? ☒ Yes ☐ No Does valve have bubble tight shut off? ☐ Yes ☐ No
 Are there any changes to the system that would affect the original calculations? ☐ Yes ☐ No

If any problems or abnormalities were found, please explain: _____

Performed By: _____ Date: _____

Materialist-DIMP

Ohio Rural Natural Gas Co-L

Sy. #:

Project Name or Address

Date

WO Number

Starting Point:

(Distance from

nearest intersection)

Farm TAP OUT to main

Soil Type

(Circle)

Sand

Loam

Clay

Rock

Slurry

Main Line or Service Line

(Circle)

Type/Size

Install Method

(Circle)

Trench

Bore

Insert

HDD

WFI? - Withdrawl From Inventory?

Item	Station Start at 0+00	C/L Distance	Item Number	Pipe Footage	WFI?	Manufacturer	Part#	Type/Size	Mfg Date	Lot Number	SDR	PE Type
1						CENTRAL	6500730	4 in	4/11	254767	11.5	TF
2												
3						CENTRAL	6412133	2 in	1/09	153261		BF 90
4												
5						CENTRAL	6410025	4 in X 2 in	11/13	309804		BF RED
6												
7						CENTRAL	6412158	4 in	6/14	324371		BF 40
8												
9						CENTRAL	6412158	4 in	6/14	324371		BF 40
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												

Note: Footage Column is for wire and pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

Service Line Installation Information

Utility Company:

X

Brainard

Materials Withdrawn From:

X

Mentor

Installed Date

of Laborers

Hours on Job

Subcontractor

Hours on Job

16
3-8-15

3

3

DM EXCAVATING

8

Service line Material List

Item Number	Qty./Ft.	Type/Size	Manufacturer	Mfg. Date	Lot Number	SDR	PE Type
1317	500	PE 2406 1" Pipe CTS	PolyPipe	6-14	0000213	11	2406
47	500	12 Gauge T/Wire					
520		1" Prefab Meter Set	IRON	10-14			
846		MTG Hardware					
314		Riser	Prof				
		Adaptor	Else	11-13-14	71200K		2406
1731		4x1 T/Tee	CENTRAL	11-20-14	59652		
918		EFV 800	Permasect	3-15	324019		2406
				3-3-14	2436347		2406

Common 1" CTS Yellow 2406 Items

Item Number	Qty./Ft.	Type/Size	Manufacturer	Mfg Date	Lot Number	SDR	PE Type
1317		Pipe, PE 2406 1" CTS					2406
47		Standard 12 Gauge Tracer Wire					
1759		Tracer Wire Splice Kit					
1662		2 X 1 E/F Tap Tee W/ EFV 800					2406
1731		4 X 1 E/F Tap Tee W/ EFV 800					2406
354		6 X 1 E/F Tap Tee					2406
918		EFV 800 Series					2406
634		Coupler, Stab 1" CTS/CTS					2406
314		Riser, 1" CTS Steel Anodless					2406
718		Riser, 1" CTS Flex					2406
520		1" Prefab Meter Set					2406
315		Bracket, Wall Type 6"					
846		Wall Mounting Hardware					

Note: Footage Column is for wire and pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

Service Line Installation Information

Utility Company:

X

Brainard

Materials Withdrawn From:

X

Mentor

Installed Date

of Laborers

Hours on Job

Subcontractor

Hours on Job

16
3-8-15

3

3

DM EXCAVATING

8

Service line Material List

Item Number	Qty./Ft.	Type/Size	Manufacturer	Mfg. Date	Lot Number	SDR	PE Type
1317	83	PE 2406 1" PIPE CTS	Poly Pipe	6-14	0000214	11	2406
47	80	12 Gauge T/Wire					
520		1" Prefab MTA Set	ITRON	10-14			
846		MTG HARDWARE					
314		RISER	Pref	11-13-14	712004		2406
		ADAPTER	ELSER	11-10-14	59652		
1731		4x1 T/TEE	CENTRAL	3-15	324015		2406
918		EFV 800	Pennasent	3-3-14	2436247		2406

Common 1" CTS Yellow 2406 Items

Item Number	Qty./Ft.	Type/Size	Manufacturer	Mfg Date	Lot Number	SDR	PE Type
1317		Pipe, PE 2406 1" CTS					2406
47		Standard 12 Gauge Tracer Wire					
1759		Tracer Wire Splice Kit					
1662		2 X 1 E/F Tap Tee W/ EFV 800					2406
1731		4 X 1 E/F Tap Tee W/ EFV 800					2406
354		6 X 1 E/F Tap Tee					2406
918		EFV 800 Series					2406
634		Coupler, Stab 1" CTS/CTS					2406
314		Riser, 1" CTS Steel Anodless					2406
718		Riser, 1" CTS Flex					2406
520		1" Prefab Meter Set					
315		Bracket, Wall Type 6"					
846		Wall Mounting Hardware					

Note: Footage Column is for wire and pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

Material List - DIMP

Company Ohio Rural Natural Gas

Odor/Gas L&R Reference No.

System#:

Inventory Ticket No.

Project Name or Address LYNTZ

Date: 1-31-15 WO Number:

Starting Point:

(Distance from

nearest intersection)

1/2 of Hallock Young → NORTH ON WEST SIDE OF LYNTZ

911' ECL OF NEWTON TOMLINSON RD → EAST THEN NORTH ON LYNTZ

Soil Type

(Underline/Circle)

Sand

Loam

Clay

Rock

Slurry

Part#

Type/Size

Install Method

Trench

Insert

US Number

SDR

PE Type

Item	Station Start at 0+00	C/L Distance	Item Number	Pipe Footage	Manufacturer	Part#	Type/Size	Mfg Date	Lot Number	US Number	SDR	PE Type
1	0+32	0/4	OF		Hallock Young		NORTH TIE TO LINE ON HALLOCK YOUNG					
2					CONTINUOUS		NORTH 26' WELL					
3	05+71	21wcl		499	Poly Pipe		4" PLASTIC PIPE	OCT 14	6099008		13.5	2406
4	"	"					MARKER POST					
5	"	"			CENTRAL	575008	4" FUS/CPLG	9-14	316205	US1790		2406
6	10+41	21wcl		410	Poly Pipe		4" PLASTIC PIPE	OCT 14	6099008		13.5	2406
7	"	"					M/P					
8	"	"			CENTRAL	575008	4" FUS/CPLG	4-14	316205	US1790		2406
9	15+29	"		458	Poly Pipe		4" PLASTIC PIPE	OCT-14	6099008		13.5	2406
10	"	"					M/P					
11	"	"			CENTRAL	575008	4" FUS/CPLG	4-14	316205	US1790		2406
12	20+04	21wcl		475	Poly Pipe		4" PLASTIC PIPE	OCT 14	6099008		13.5	2406
13	"	"										
14	"	"			CENTRAL	575008	4" FUS. CPLG	4-14	316205	US1790		2406
15	24+68	21wcl		464	Poly Pipe		4" PLASTIC PIPE	Nov-14			13.5	2406
16	"	"										
17	"	"			CENTRAL	575008	4" FUS. CPLG	4-14	316205	US1790		2406
18	29+34	21wcl		466	Poly Pipe		4" PLASTIC PIPE	Nov-14			13.5	2406
19	"	"										
20	"	"			CENTRAL	575008	4" FUS. CPLG	4-14	316205	US1790		2406
21	31+74	20wcl		240	Poly Pipe		4" PLASTIC PIPE	Nov-14			13.5	2406
22	"	"			(UNDER GROUND)							
23	"	"			CENTRAL	575008	4" FUS. CPLG	4-14	316205	US1790		2406
24	36+64	21wcl		490	Poly Pipe		4" PLASTIC PIPE	Nov-14			13.5	2406

Note: Footage Column is for wire and pipe only. Since each item could have unique Mfg Date and Lot Number, each item MUST have its own entry line

Material List-DIMP

Sy nif: T1-005
 Work Order Number L8-2015
 Date

Project Name or Address 6970 WILLIAMS RD. Bick Barn Williams Rd

Starting Point:
 (Distance from
 nearest intersection)
76' EAST From c/L of WILLIAMS Rd + CASCADE RD.
LAT 41° 40' 52" N LONG. 81° 11' 59" W TAP LOCATION

Soil Type (Circle)		Sand	Loam	Clay	Rock	Slurry	Main Line or Service Line (Circle)	Install Method (Circle)	Bore	Insert	HDD
									Lot Number	SDR	PE Type
Station Start at 0+00	C/L Distance	Item Number	Pipe Footage	WFI?	Manufacturer	Part#	Type/Size	Mfg Date			
1 0+00					Mueller		1" Top-Top tee				
2 0+01					weldbond		2" to 1" reducer				
3 0+01					Balon	USA	2" valve 300#	8-13			
4 0+01					weldbond		2" to 1" reducer				
5 0+01							90° Fitting				
6 0+01			30"		pipe		1" Sch 80 pipe				
7 0+01							90° Fitting				
8 0+02			6"				1" Sch 80 pipe				
9 0+02					TAL-623		Drip Bottle	2015	UNC 52A-031		
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											

Note: Footage Column is for pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

Material List-DIMP

System : _____

Company OTP

Inventory Ticket No. _____

Odor/Gas L&R Reference No. _____

Project Name or Address Sugar bush

Date 11-3 WO Number _____

Starting Point:

(Distance from

nearest intersection)

Soil Type

(Circle)

Sand

Loam

Clay

Rock

Slurry

Main Line or Service Line
(Circle)

Install Method
(Circle)

Trench

Bore

Insert

HDD

WF17 - Withdrawl From Inventory?

Item	Station Start at 0+00	C/L Distance	Item Number	Pipe Footage	WF17	Manufacturer	Part#	Type/Size (Circle)	Mfg Date	Lot Number	SDR	PE Type
1	0+00					Mueller		1" tap tee				
2	0+01					weld bend		2" to 1" reducer		WPB 907519		
3	0+01					Balon		2" valve 300#	8-13			
4	0+01					weld bend		2" to 1" reducer		WPB 907519		
5	0+05			4'		Sch 80		1" pipe				
6	0+05					weld bend		90° 1"		WPB 12305		
7	0+05			3'		Sch 80		1" pipe				
8	0+05					weld bend		90°		WPB 12305		
9	0+06			4"		Sch 80		pipe				
10	0+06					TRU-gas		drip bottle	2015	UNC 52A026		
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												

Note: Footage Column is for wire and pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

F35

Material L -DIMP



System: 2015-004
 Work Order Number
 Date 11-7-2015
 Project Name or Address

X2294423.4907 Y739828.8598
 PIN# 16B060B000070 MENTOR, OHIO 44060
 SUGAR BUSH & RED OAK -> EAST 830'

Starting Point:
 (Distance from
 nearest intersection)

Soil Type
 (Circle) Sand Loam Clay Rock Slurry
 Install Method (Circle) Trench Bore Insert HDD
 (Circle) (Circle) (Circle) WFI? - Withdrawl From Inventory?

Item	Station Start at 0+00	C/L Distance	Item Number	Pipe Footage	WFI?	Manufacturer	Part#	Type/Size	Mfg Date	Lot Number	SDR	PE Type
1	0+00					Central	59652	2" Pipe	8-15	NRD390241EB	11	2406
2	0+02			134		Central	6912135	2" Pipe	11-13	NRD390241EB	11	2406
3	1+34					Central	6912135	2" Tee	2-14	NRD390241EB	11	2406
4	1+34			509		Central	6912107	2" Tee	11-13	NRD390241EB	11	2406
5	6+43					Central	5960030	2" Purge Cap	6-11	NRD390241EB	11	2406
6	1+34					Central	5960030	2" Coupling	4-14	NRD390241EB	11	2406
7	1+34			335		Central	6912107	2" Pipe	11-13	NRD390241EB	11	2406
8	4+69					Central	6912107	2" Purge Cap	6-11	NRD390241EB	11	2406
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												

Note: Footage Column is for pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

Critical Valve Inspection Report (§192.747, §192.181)

Inspection Frequency: Once every calendar year, NTE 15 months

System Name SUGAR Bush DR. System Number 51-002

[illegible]

Comments:

Material List - DIMP

System #: _____ Name: _____

Inventory Ticket No. _____

Project Name or Address Produce Houses 9230 Sugarbush Mentor Ohio 44060

Starting Point: _____

(Distance from nearest intersection)

Company _____

Order / Gas L&R Ref. No. _____

WD Number _____

Main Line or Service Line

(Check one)

Item	Station Start at 0+00	C/L Distance	Depth	Item Number	Footage	W/F?	Manufacturer	Part #	Type/Size	Mfg Date	Lot Number	PE Type	SDR	Soil Type	How Install
1				Riser			ESTER	59652	1" Flex	7-8-15	71200				
2				Pipe			oilcreek	2406-2708	1" Plastic	8-11-14					
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															

F35 11/26/12

NOTE: Footage Column is for wire and pipe only. Each component must be listed on a separate line in the order it was installed. Complete information for each column.

Installed By Bradly Egan

Date 3-16-16

GPS Lon/Lot

Material List - DIMP

System#:

Inventory Ticket No.

Company OHIO RURAL NATURAL GAS

Odor/Gas L&R Reference No.

Project Name or Address Duck Creek

Date: 1-19-15

WO Number:

Starting Point:

(Distances from

nearest intersection)

1/2 ST. RT. 18 → South on WEST SIDE OF DUCK CREEK

3802' SCL ST. RT. 18

Soil Type

(Underline/Circle)

Sand

Loam

Clay

Rock

Slurry

Main Line or Service Line

(Underline/Circle)

Install Method

Trench

Insert

HDD

Item	Station Start at 0+00	C/L Distance	Item Number	Pipe Footage	Manufacturer	Part#	Type/Size	Mfg Date	Lot Number	US Number	SDR	PE Type
1	0+00	26wcl			9/2 ST.	RT 18	BEGIN LAY					
2	38+02	26wcl			"	"	2" PURGE PT	10/13				2406
3	"	"			CENTRAL		4x2 REDUCER	8-13				2406
4	38+03	"			"		M. POST					
5	"	"					4" PLASTIC PIPE	OCT 14	6099008		13.5	2406
6	40+11	26wcl		208	Poly Pipe		4" FUSION CLPG	4-14	316205	001790		2406
7	"	"			CENTRAL	5757008	M. POST					
8							4" PLASTIC PIPE	OCT 14	6099008		13.5	2406
9	44+69	25wcl		458	Poly Pipe		4" F/CLPG	4-14	316205	001790		2406
10	"	"			CENTRAL	5757008	M. POST					
11	"	"					4" PLASTIC PIPE	OCT 14	6099008		13.5	2406
12	49+31	26wcl		462	Poly Pipe		4" F/CLPG	4-14	316205	001790		2406
13	"	"			CENTRAL	5757008	M. POST					
14	"	"					4" PLASTIC PIPE	OCT 14	6099008		13.5	2406
15	53+97	"		416	Poly Pipe		4" F/CLPG	4-14	316205	001790		2406
16	"	"			CENTRAL	5757008	M. POST					
17	"	"					4" PLASTIC PIPE	OCT 14	6099008		13.5	2406
18	58+08	25wcl		411	Poly Pipe		4" F/CLPG	4-14	316205	001790		2406
19	"	"			CENTRAL	5757008	M. POST					
20	"	"					4" PLASTIC PIPE	OCT 14	6099008		13.5	2406
21	62+67	25wcl		459	Poly Pipe		4" F/CLPG	4-14	316205	001790		2406
22	"	"			CENTRAL	5757008	M. POST					
23	"	"					4" PLASTIC PIPE	OCT 14	6099008		13.5	2406
24	67+45	25wcl		478	Poly Pipe		4" F/CLPG	4-14	316205	001790		2406
							M. POST					
							4" PLASTIC PIPE	OCT 14	6099008		13.5	2406

Note: Footage Column is for wire and pipe only. Since each item could have unique Mfg Date and Lot Number, each item MUST have its own entry line

Material List DIMP

System#:

Company Ohio Rural Natural Gas

Inventory Ticket No.

Odor/Gas L&R Reference No.

Project Name or Address

Duck Creek

Date:

1-19-15

WO Number:

Starting Point:

1/2 ST. RT. 18 → South on West Side of Duck Creek

(Distance from nearest intersection)

3802' SCL ST. RT. 18

Soil Type

Sand

Loam

Clay

Rock

Slurry

Main Line or Service Line

Install Method

Trench

Insert

HDD

(Underline/Circle)

(Underline/Circle)

(Underline/Circle)

Item	Station Start at D+00	C/L Distance	Item Number	Pipe Footage	Manufacturer	Part#	Type/Size	Mfg Date	Lot Number	US Number	SDR	PE Type
1	67+45	25wcl			Central	5757008	4" F/CLPG	6-14	327042	005182	13.5	2406
2	"	"					M. Post					
3	72+48	"	503		Poly Pipe		4" Plastic Pipe	Oct-14	6099008		13.5	2406
4	"	"			Central	5757008	4" F/CLPG	6-14	327042	005182		2406
5	"	"					M. Post					
6	77+05	24wcl		457	Poly Pipe		4" Plastic Pipe	Oct-14	6099008		13.5	2406
7	"	"			Central	5757008	4" F/CLPG	6-14	327042	005182		2406
8	"	"					M. Post					
9	81+32	"	427		Poly Pipe		4" Plastic Pipe	Oct-14	6099008		13.5	2406
10	"	"			Central	5757008	4" F/CLPG	6-14	327042	005182		2406
11	"	"					M. Post					
12	86+35	25wcl		507	Poly Pipe		4" Plastic Pipe	Oct-14	6099008		13.5	2406
13	"	"			Central	5757008	4" F/CLPG	6-14	327042	005182		2406
14	"	"					M. Post					
15	90+97	26wcl		458	Poly Pipe		4" Plastic Pipe	Oct-14	6099008		13.5	2406
16	"	"			Central	5757008	4" F/CLPG	6-14	327042	005182		2406
17	"	"					M. Post					
18	95+35	25"	438		Poly Pipe		4" Plastic Pipe	Oct-14	6099008		13.5	2406
19	"	"			Central	5757008	4" F/CLPG	6-14	327042	005182		2406
20	"	"					M. Post					
21	99+63	"	428		Poly Pipe		4" Plastic Pipe	Oct-14	6099008		13.5	2406
22	"	"			Central	5757008	4" F/CLPG	6-14	327042	005182		2406
23	"	"					M. Post					
24	104+30	25wcl		467	Poly Pipe		4" Plastic Pipe	Oct-14	6099008		13.5	2406

Notes: Footage Column is for wire and pipe only. Since each item could have unique Mfg Date and Lot Number, each item MUST have its own entry line

Material List-DIMP

Pg. 3

System#:

Company CH10 RURAL NATURAL GAS

Inventory Ticket No.

Odor/Gas L&R Reference No.

Project Name or Address

Duck Cross

Date: 1-19-15

WO Number:

Starting Point:

1/4 ST. RT. 18 → South on WEST SIDE OF DUCK CREEK

(Distance from

nearest intersection)

3802' SCL ST RT 18

Soil Type

(Underline/Circle)

Sand

Loam

Clay

Rock

Slurry

Part#

Type/Size

Mfg Date

Lot Number

US Number

SDR

PE Type

Insert

HDD

Item	Station Start at 0+00	C/L Distance	Item Number	Pipe Footage	Manufacturer	Part#	Type/Size	Mfg Date	Lot Number	US Number	SDR	PE Type
1	104+30	2500		-	CENTRAL	5757008	4" F/CLP6 N.PAST	6-14	327042	005782		2406
2		"		-								
3	108+63	"		433	Poly Pipe		4" PLASTIC PIPE OCT-14		6099008		13.5	2406
4	"	"										
5												
6												
7												
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22												
23												
24												

Notes: Footage Column is for wire and pipe only. Since each item could have unique Mfg Date and Lot Number, each item MUST have its own entry line

Material List-DIMP

System#:

Company

ORNL

Inventory Ticket No.

Odor/Gas L&R Reference No.

Project Name or Address

7325 Reynolds Rd

Date

WO Number

Starting Point:

(Distance from

nearest intersection)

Soil Type

(Circle)

Main Line or Service Line

(Circle)

Slurry

Rock

Clay

Loam

Sand

C/L Distance

Station Start at 0+00

WEI?

Pipe Footage

Item Number

Manufacturer

Part#

Type/Size

Mfg Date

Trench

Bore

Insert

HDD

WEI? - Withdrawl From Inventory?

Item #	Station Start at 0+00	C/L Distance	Item Number	Pipe Footage	WEI?	Manufacturer	Part#	Type/Size	Mfg Date	Lot Number	SDR	PE Type
1	0+00					E1st-1"	71200-9	1.5" PE	10-27-74	000002427234		
2	0+01			155'		Poly-Pipe	71200-9	1" PE	9-5	000002420825		
3	1+56					E1st-1"		Metric 62r				
4	1+57											
5												
6												
7												
8												
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24												

Note: Footage Column is for wire and pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

Material List-DIMP

Sym# 00000001
 W.O. Order Number 14-2015
 Date 11-12-15
 Project Name or Address

800 Oak St Late-Georgia Recovery Center

Starting Point:
 (Distance from
 nearest intersection)

Soil Type (Circle)		Loam		Clay		Rock		Slurry		Main Line or Service Line (Circle)		Install Method (Circle)		Bore		Insert		HDD	
Station	Start at 0+00	C/L	Distance	Item	Pipe	Footage	WFI?	Manufacturer	Part#	Type/Size	Mfg Date	Lot Number	SDR	PE	Type	WFI? - Withdrawal From Inventory?			
1	0+00							Big only		1" Fair tap	3-15								
2	0+01							Clster	75905	2" transition	3-15	000007485	11						
3	0+01				165			Duct-Line		2" pipe	11-12	NRP 395241ED	11						
4	1+66							Clster	75905	2" transition	3-15	000007485	11						
5								Wile											
6																			
7																			
8																			
9																			
10																			
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16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Note: Footage Column is for pipe only. Since each item could have a different length

Note: Footage Column is for pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

90#
 Service Line

80 PSK4
 2108

NEED INFO

System#:

Inventory Ticket No.

Project Name or Address

Material - 1st-DIMP

Company Ohio Road Natural Gas

Order/Gas L&R Reference No.

Date: 1-31-15 WO Number:

Starting Point:

Distance from

nearest intersection)

C/L of Hallock Young → NORTH ON WEST SIDE OF LYNTZ

9" ECL OF NEWTON TOMLINSON RD → EAST THEN NORTH ON LYNTZ

Soil Type

Sand

Loam

Clay

Rock

Slurry

Main Line or Service Line
(Underline/Circle)

Install Method Trench

(Bore)

(Underline/Circle)

Insert

HDD

Item	Station Start at 0+00	C/L Distance	Item Number	Pipe Footage	Manufacturer	Part#	Type/Size (Underline/Circle)	Mfg Date	Lot Number	US Number	SDR	PE Type
1	0+00	C/L	OF		Hallock Young		NORTH THEN TO LINE ON Hallock Young					
2					Continuing Lay		NORTH 20' WEL					
3	0+00	21' WEL		499	Polypipe		4" PLASTIC PIPE					
4	"	"					MARKER POST					
5	"	"			CENTRAL	575008	4" FUS/CLIP	9-14	316205	US 1790	13.5	2406
6	10+47	21' WEL		475	Polypipe		4" PLASTIC PIPE	9-14	316205	US 1790	13.5	2406
7	"	"					4" PLASTIC PIPE	9-14	6099008			
8	"	"					M/P					
9	15+29	"		460	Polypipe		4" FUS/CLIP	4-14	316205	US 1790	13.5	2406
10	"	"					4" PLASTIC PIPE	9-14	6099008			
11	"	"					M/P					
12	20+04	21' WEL		475	Polypipe		4" FUS/CLIP	11-14	316205	US 1790	13.5	2406
13	"	"					4" PLASTIC PIPE	9-14	6099008			
14	"	"					M/P					
15	24+68	21' WEL		464	Polypipe		4" FUS/CLIP	11-14	316205	US 1790	13.5	2406
16	"	"					4" PLASTIC PIPE	11-14				
17	"	"					M/P					
18	28+24	21' WEL		464	Polypipe		4" FUS/CLIP	11-14	316205	US 1790	13.5	2406
19	"	"					4" PLASTIC PIPE	11-14				
20	"	"					M/P					
21	31+74	20' WEL		460	Polypipe		4" FUS/CLIP	11-14	316205	US 1790	13.5	2406
22	"	"					4" PLASTIC PIPE	11-14				
23	"	"					M/P					
24	36+04	21' WEL		460	Polypipe		4" FUS/CLIP	11-14	316205	US 1790	13.5	2406
							4" PLASTIC PIPE	11-14				

Note: Footage Column is for wire and pipe only. Since each item could have unique Mfg Date and Lot Number, each item MUST have its own entry line

System No.

Inventory Ticket No.

Material List-DIMP

Company Ohio Rural Natural Gas

Order/Sales Reference No.

Project Name or Address Hallock Young to Lynette

Date: 2-10-15 WO Number:

Starting Point:

(Distance from

nearest house only)

C/L Newton Tomlinson Rd - East on North Side of Hallock Young to South on Lynette

911' ECL of Newton Tomlinson Rd - 19' NCL of Hallock Young

Soil Type

Sand

Loam

Clay

Rock

Slurry

(Including/Cover)

Main Line or Service Line

Install Method

Trench

Insert

HDD

Station	C/L	Item	Pipe	Manufacturer	Part	Type/Size	Mfg Data	Lot Number	US Number	SDR	PE
Start at 0+00	Distance	Number	Footage								Type
1 0+911	18' NCL		44	Central		3" P/P				13.5	2406
2 0+912	"			"		4x2 REDUCER					
3 0+912	"					M/POST					
4 9+357	19' NCL		447	PolyPipe		4" PIPE			85612 Bay East		
5 "	"			Central	5757008	4" FUS CLPG	11-14				
6 "	"					M/POST	4-14	316205	001790	13.5	2406
7 1+787	"		428	PolyPipe		4" PIPE					
8 "	"		427	Central	5757008	4" FUS CLPG	11-14				
9 "	"					M/POST	4-14	316205	001790	13.5	2406
10 2+174	20' NCL		387	PolyPipe		4" PIPE					
11 "	"			Central	5757008	4" FUS CLPG	11-14				
12 "	"					M/POST	4-14	316205	001790	13.5	2406
13 2+648	"		474	PolyPipe		4" PIPE					
14 "	"			Central	5757008	4" FUS CLPG	11-14				
15 "	"					M/POST	4-14	316205	001790	13.5	2406
16 3+089	20' NCL		441	PolyPipe		4" PIPE					
17 "	"			Central	5757008	4" FUS CLPG	11-14				
18 "	"					M/POST	4-14	316205	001790	13.5	2406
19 3+07	21' NCL		318	PolyPipe		4" PIPE					
20 "	"			Central	5757008	4" FUS CLPG	11-14				
21 "	"					M/POST	4-14	316205	001790	13.5	2406
22 3+089	21' NCL		101	PolyPipe		4" PIPE					
23 "	"			Central	5757008	4" FUS CLPG	11-14				
24 3+089	21' NCL			PolyPipe		4" PIPE					
25 "	"			Central	5757008	4" FUS CLPG	11-14				
26 3+089	21' NCL					M/POST	4-14	316205	001790	13.5	2406
27 "	"					4" PIPE					
28 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
29 "	"					4" PIPE					
30 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
31 "	"					4" PIPE					
32 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
33 "	"					4" PIPE					
34 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
35 "	"					4" PIPE					
36 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
37 "	"					4" PIPE					
38 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
39 "	"					4" PIPE					
40 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
41 "	"					4" PIPE					
42 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
43 "	"					4" PIPE					
44 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
45 "	"					4" PIPE					
46 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
47 "	"					4" PIPE					
48 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
49 "	"					4" PIPE					
50 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
51 "	"					4" PIPE					
52 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
53 "	"					4" PIPE					
54 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
55 "	"					4" PIPE					
56 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
57 "	"					4" PIPE					
58 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
59 "	"					4" PIPE					
60 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
61 "	"					4" PIPE					
62 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
63 "	"					4" PIPE					
64 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
65 "	"					4" PIPE					
66 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
67 "	"					4" PIPE					
68 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
69 "	"					4" PIPE					
70 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
71 "	"					4" PIPE					
72 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
73 "	"					4" PIPE					
74 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
75 "	"					4" PIPE					
76 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
77 "	"					4" PIPE					
78 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
79 "	"					4" PIPE					
80 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
81 "	"					4" PIPE					
82 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
83 "	"					4" PIPE					
84 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
85 "	"					4" PIPE					
86 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
87 "	"					4" PIPE					
88 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
89 "	"					4" PIPE					
90 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
91 "	"					4" PIPE					
92 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
93 "	"					4" PIPE					
94 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
95 "	"					4" PIPE					
96 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
97 "	"					4" PIPE					
98 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
99 "	"					4" PIPE					
100 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
101 "	"					4" PIPE					
102 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
103 "	"					4" PIPE					
104 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
105 "	"					4" PIPE					
106 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
107 "	"					4" PIPE					
108 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
109 "	"					4" PIPE					
110 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
111 "	"					4" PIPE					
112 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
113 "	"					4" PIPE					
114 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
115 "	"					4" PIPE					
116 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
117 "	"					4" PIPE					
118 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
119 "	"					4" PIPE					
120 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
121 "	"					4" PIPE					
122 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
123 "	"					4" PIPE					
124 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
125 "	"					4" PIPE					
126 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
127 "	"					4" PIPE					
128 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
129 "	"					4" PIPE					
130 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
131 "	"					4" PIPE					
132 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
133 "	"					4" PIPE					
134 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
135 "	"					4" PIPE					
136 3+089	21' NCL					4" FUS CLPG	4-14	316205	001790	13.5	2406
137 "	"					4" PIPE					

System#:

Material List-DIMP

Inventory Ticket No.

Company Ohio Rural Natural Gas

Order/Gas Tar Reference No.

Project Name or Address

Hallock Young to Lynntz

Date: 2-10-15

WO Number:

Starting Point:

(Distance from

nearest intersection)

C/L Newton Tomlinson to East on North Side of Hallock Young to South on Lynntz

911' ECL of Newton Tomlinson to - 19' NCL of Hallock Young

Soil Type

(Underside/Grade)

Sand

Loam

Clay

Rock

Slurry

Main Line or Service Line

(Underside/Grade)

Install Method

Trench

Insert

HDD

Install Method Trench (Date)												Insert	HDD
Inventory/Draw													
Station	C/L	Distance	Item	Pipe	Manufacturer	Part#	Type/Size	Mfg Date	Lot Number	US Number	SDR	PE	
Start at 0+00			Number	Footage								Type	
1	0+711	18' NCL			Central		3" P/P					13.5 2406	
2	0+712	"		41	"		4x2 REDUCER						
3	0+712	"					M/POST						
4	0+739	19' NCL		447	PolyPipe		4" PIPE	11-14	BEGIN Lay EAST				
5	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
6	"	"					M/POST						
7	1+787	4		428	PolyPipe		4" PIPE	11-14					
8	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
9	"	"					M/POST						
10	2+174	20' NCL		387	PolyPipe		4" PIPE	11-14					
11	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
12	"	"					M/POST						
13	2+648	"		474	PolyPipe		4" PIPE	11-14					
14	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
15	"	"					M/POST						
16	3+089	20' NCL		441	PolyPipe		4" PIPE	11-14					
17	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
18	"	"					M/POST						
19	3+407	21' NCL		318	PolyPipe		4" PIPE	11-14					
20	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
21	"	"					M/POST						
22	3+715	21' NCL		101	PolyPipe		4" PIPE	11-14					
23	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
24	"	"					M/POST						
25	4+000	21' NCL		101	PolyPipe		4" PIPE	11-14					
26	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
27	"	"					M/POST						
28	4+217	21' NCL		101	PolyPipe		4" PIPE	11-14					
29	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
30	"	"					M/POST						
31	4+424	21' NCL		101	PolyPipe		4" PIPE	11-14					
32	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
33	"	"					M/POST						
34	4+631	21' NCL		101	PolyPipe		4" PIPE	11-14					
35	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
36	"	"					M/POST						
37	4+838	21' NCL		101	PolyPipe		4" PIPE	11-14					
38	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
39	"	"					M/POST						
40	4+1045	21' NCL		101	PolyPipe		4" PIPE	11-14					
41	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
42	"	"					M/POST						
43	4+1252	21' NCL		101	PolyPipe		4" PIPE	11-14					
44	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
45	"	"					M/POST						
46	4+1459	21' NCL		101	PolyPipe		4" PIPE	11-14					
47	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
48	"	"					M/POST						
49	4+1666	21' NCL		101	PolyPipe		4" PIPE	11-14					
50	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
51	"	"					M/POST						
52	4+1873	21' NCL		101	PolyPipe		4" PIPE	11-14					
53	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
54	"	"					M/POST						
55	4+2080	21' NCL		101	PolyPipe		4" PIPE	11-14					
56	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
57	"	"					M/POST						
58	4+2287	21' NCL		101	PolyPipe		4" PIPE	11-14					
59	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
60	"	"					M/POST						
61	4+2494	21' NCL		101	PolyPipe		4" PIPE	11-14					
62	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
63	"	"					M/POST						
64	4+2701	21' NCL		101	PolyPipe		4" PIPE	11-14					
65	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
66	"	"					M/POST						
67	4+2908	21' NCL		101	PolyPipe		4" PIPE	11-14					
68	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
69	"	"					M/POST						
70	4+3115	21' NCL		101	PolyPipe		4" PIPE	11-14					
71	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
72	"	"					M/POST						
73	4+3322	21' NCL		101	PolyPipe		4" PIPE	11-14					
74	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
75	"	"					M/POST						
76	4+3529	21' NCL		101	PolyPipe		4" PIPE	11-14					
77	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
78	"	"					M/POST						
79	4+3736	21' NCL		101	PolyPipe		4" PIPE	11-14					
80	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
81	"	"					M/POST						
82	4+3943	21' NCL		101	PolyPipe		4" PIPE	11-14					
83	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
84	"	"					M/POST						
85	4+4150	21' NCL		101	PolyPipe		4" PIPE	11-14					
86	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
87	"	"					M/POST						
88	4+4357	21' NCL		101	PolyPipe		4" PIPE	11-14					
89	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
90	"	"					M/POST						
91	4+4564	21' NCL		101	PolyPipe		4" PIPE	11-14					
92	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
93	"	"					M/POST						
94	4+4771	21' NCL		101	PolyPipe		4" PIPE	11-14					
95	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
96	"	"					M/POST						
97	4+4978	21' NCL		101	PolyPipe		4" PIPE	11-14					
98	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
99	"	"					M/POST						
100	4+5185	21' NCL		101	PolyPipe		4" PIPE	11-14					
101	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
102	"	"					M/POST						
103	4+5392	21' NCL		101	PolyPipe		4" PIPE	11-14					
104	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
105	"	"					M/POST						
106	4+5600	21' NCL		101	PolyPipe		4" PIPE	11-14					
107	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
108	"	"					M/POST						
109	4+5807	21' NCL		101	PolyPipe		4" PIPE	11-14					
110	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
111	"	"					M/POST						
112	4+6014	21' NCL		101	PolyPipe		4" PIPE	11-14					
113	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
114	"	"					M/POST						
115	4+6221	21' NCL		101	PolyPipe		4" PIPE	11-14					
116	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
117	"	"					M/POST						
118	4+6428	21' NCL		101	PolyPipe		4" PIPE	11-14					
119	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
120	"	"					M/POST						
121	4+6635	21' NCL		101	PolyPipe		4" PIPE	11-14					
122	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
123	"	"					M/POST						
124	4+6842	21' NCL		101	PolyPipe		4" PIPE	11-14					
125	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
126	"	"					M/POST						
127	4+7049	21' NCL		101	PolyPipe		4" PIPE	11-14					
128	"	"			Central	5757008	4" FUS CLPG	4-14	316205	001790	13.5	2406	
129													

System#:

Material List-DIMP

Ohio Rural Natural Gas Co-Op

Project Name or Address

Date

WG Number

Starting Point:

(Distance from

nearest intersection)

Farm TAP OUT to main

Soil Type

(Circle)

Soil Type (Circle)		Sand		Loam		Clay		Rock		Slurry		Main Line or Service Line (Circle)				Install Method (Circle)		Trench		Bore		Insert		HDD	
Item	Station Start at 0+00	C/L Distance	Item Number	Pipe Footage	W/F	Manufacturer	Part#	Type/Size	Mfg Date	Lot Number	SDR	PE Type													
1						CENTRAL	6500710	2in	4/11	254767	11.5	TF													
2						CENTRAL	6912133	2in	1/09	153261		BF													
3						CENTRAL	6410025	4in X 2in	11/13	309804		BF													
4						CENTRAL	6912158	4in	6/14	324371		BF													
5						CENTRAL	6912158	4in	6/14	324371		BF													
6																									
7																									
8																									
9																									
10																									
11																									
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21																									
22																									
23																									
24																									

Note: Footage Column Is for wire and pipe only. Since each item could have a unique Mfg Date and Lot Number, please include this information in the Remarks column.

Note: Footage Column is for wire and pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

F35

Critical Valve Inspection Report (§192.747, §192.181)

Inspection Frequency: Once every calendar year, NTE 15 months

System Name FRAC I System Number SI-001

System Number SI-001[illegible]

Comments:

Material st-DIMP

Sy. # 51-001
 Work Order Number 11-2015
 Date 9-28-15
 Project Name or Address

Starting Point: 30' End of Fracci Court
 (Distance from nearest intersection)

OSair 7001 Center St. Mantoloking

Station Start at 0+00	C/L Distance	Item Number	Pipe Footage	WFI?	Manufacturer	Part#	Type/Size (Circle)	Mfg Date (Circle)	Lot Number	SDR	PE Type
1 0+00	✓				Mueller		2" Top-Top te		A-105-K3		
2 0+01					Ballon	USA	2" Valve 300#	8-13	2F-US93-13w		
3 0+01			58'		Enclax		2" Epoxy Pipe	7-15	1X912326		
4 0+59					Metalisid		900 Fitting		2wPBSTNE901		
5 0+59			3'		Enclax		2" Pipe Epoxy	7-13	1X812326		
6 0+59					Metalisid		900 Fitting		2wPBSTNE901		
7 0+60			4"		Nipple		2" Pipe Sch 80				
8 0+60	✓				Ballon	USA	2" Valve 200 WP		2F-592 InLine threaded		
9 0+61			2"		Nipple		Sch 80 Pipe				
10 0+61					Korek		2" Hammer Union				
11 0+61			2"		Nipple		Sch 80 Pipe				
12 0+61					Thugos		drip- Bottle	2013	C53A-011		
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											

Note: Footage Column is for pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

Material List-DIMP



SY: 51-061

Work Order Number 11-2015

Date 9-28-15

Project Name or Address

7001 Center St Mentor

Starting Point:

(Distance from

nearest intersection)

FRACCI Court

Soll Type

(Circle)

Sand

Loam

Clay

Rock

Slurry

Main Line or

Service Line

(Circle)

Install Method

(Circle)

Trench

Bore

Insert

HDD

WFI? - Withdraw From Inventory?

Item	Station Start at 0+00	C/L Distance	Item Number	Pipe Footage	WFI?	Manufacturer	Part#	Type/Size	Mfg Date	Lot Number	SDR	PE Type
1	0+00					Big ORB		1" Form LRP	2-15			
2	0+01					cluster	75905	2" transition	3-15	00002306064	11	
3	0+01			432'		Durac-line		2" Poly pipe	11-13	NAD395241EB	11	
4	3+39					Central		2" 900 fitting			11	
5	3+39			141'		Durac-line		2" Poly pipe		NAD395241EB	11	
6	4+80					cluster	75905	2" transition	3-15	00002306064	11	
7												
8												
9												
10												
11												
12												
13												
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22												
23												
24												

Note: Footage Column is for pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

Material List-DIMP

System#: _____
 Work Order Number _____
 Date 9-23-15
 Project Name or Address 13164 LeRoy-Center Rd. Muzic

Starting Point:
 (Distance from
 nearest intersection)

Line	Station Start at 0+00	C/L Distance	Item Number	Pipe Footage	WFI?	Manufacturer	Part#	Type/Size	Install Method (Circle)			SDR	PE Type
									Mfg Date	Lot Number	Bore WFI? - Withdrawl From Inventory?		
1	0+00					Mudler	USA	1" RAP Tee					
2	0+01					weldhead		2" 601" reduced					
3	0+01					Baton	USA	2" valve 300"	8-13	WPB 907519			
4	0+01					weldhead		2" 601" reduced					
5	0+01			5'		1" pipe		1" Sch 80		WPB 907519			
6	0+06					Mudler		90° Fitting		3477			
7	0+06			3'		1" pipe		1" Sch 80					
8	0+08					Mudler		90° Fitting		3477			
9	0+09			4"		1" pipe		1" Sch 80					
10	0+09					Tru-gas		drip bottle	2015	UMC 52A-037			
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													

Note: Footage Column is for pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

Material List-DIMP

Sys #:

Work Order Number

Date

Project Name or Address



Starting Point:

(Distance from

nearest intersection)

Soil Type

(Circle)

Sand

Loam

Clay

Rock

Slurry

Main Line or Service Line

(Circle)

Install Method

(Circle)

Trench

Bore

Insert

HDD

WF? - Withdraw From Inventory?

Item	Station Start at 0+00	C/L Distance	Item Number	Pipe Footage	WF?	Manufacturer	Part#	Type/Size	Mfg Date	Lot Number	SDR	PE Type
1	0+00					Big Dots		Form Tap				
2	0+01					Elster		Riser 5261"ets	8-15-15			
3	0+01					Elster		Adapter				
4				90'		Central		1" Poly-Pipe		00000242638		
5				90'		wire						
6						Iron		1" Pre-Fab 6" HDPE				
7						Elster		Riser 5261"ets		15009078		
8						Elster		Adapter				
9												
10												
11												
12												
13												
14												
15												
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21												
22												
23												
24												

Note: Footage Column is for pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

Critical Valve Inspection Report (§192.747, §192.181)

Inspection Frequency: Once every calendar year, NTE 15 months

System Name 110726 Larry Carter
System Number I-003

System Number TI-003

[illegible]

Comments: *Good on you - Keep up clean*

Ohio Rural Natural Gas Co-op

Installed Date: 2-13-2016

of Laborers:

Hours on Job:

Subcontractor: Jack W. Carmichael

Service line Material List

[illegible]

Note: Footage Column is for wire and pipe only. Since each item could have a unique MFG. Date and Lot Number, each item must have its own entry line

Material List-DIMP



Sys. : ORNG-3-001
 Work Order Number 2015.301
 Date
 Project Name or Address ELLSWORTH RD.

Starting Point:
 (Distance from
 nearest intersection)

Soil Type
 (Circle)

Station Start at 0+00	C/L Distance	Sand Item Number	Loam Pipe Footage	Clay WFI	Rock Manufacturer	Slurry Part#	Main Line or Service Line (Circle)	Type/Size	Mfg Date	Lot Number	Bore	Insert	HDD PE Type
1					CENTRAL	316204	4" coupling ✓		1-14	006791			3408
2			209		DURALINE	60650	4" PIPE ✓		1-10-15	02334024231B			3408
3			209		KRISTECH		8 GA TRACER WIRE						
4					CENTRAL	316204	4" coupling ✓		11-17-15	006764			3408
5			205		DURALINE	60650	4" PIPE ✓		1-10-15	02334024231B			3408
6			205		KRISTECH		8 GA TRACER WIRE						
7					CENTRAL	848711	4" coupling ✓		11-5-15	09032			3408
8			80		DURALINE	60650	4" PIPE ✓		1-10-15	02334024231B			3408
9			80		KRISTECH		8 GA TRACER WIRE						
10					CENTRAL	848711	4" coupling ✓			09088			3408
11			120		DURALINE	60650	4" PIPE ✓		1-10-15	02334024231B			3408
12			306		DURALINE	60650	4" PIPE ✓		11-2-15	034Y3C-EB			3408
13			404		KRISTECH		8 GA TRACER WIRE						
14					CENTRAL	316204	4" coupling ✓		1-14	006787			3408
15			414		DURALINE	60650	4" PIPE ✓		11-2-15	034Y3C-EB			3408
16			414		KRISTECH		8 GA TRACER WIRE						
17					CENTRAL	316204	4" coupling ✓		1-14	006788			3408
18			417		DURALINE	60650	4" PIPE ✓		11-2-15	034Y3C-EB			3408
19			417		KRISTECH		8 GA TRACER WIRE						
20					CENTRAL	316204	4" coupling ✓		1-14	006789			3408
21			576		DURALINE	60650	4" PIPE ✓		11-2-15	034Y3C-EB			3408
22			576		KRISTECH		8 GA TRACER WIRE						
23					CENTRAL	316204	4" coupling ✓		1-14	006889			3408
24			217		DURALINE	60650	4" PIPE ✓		11-2-15	034Y3C-EB			3408

Note: Footage Column is for wire and pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

F35

502" 64 PSI

00 4.5

BAND RADIOS

50

8 Couplings

102

Odor/Gas L&R Reference No.

Date 7/10-2/1/-205WO Number

E/Sworth + Wadver

Distance from

nearest intersection)

[illegible]

Note: Footage Column is for wire and pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

Material st-DIMP

Sys. _____
 Work Order Number _____
 Date _____
 Project Name or Address _____



Starting Point:
 (Distance from
 nearest intersection)

Station Start at 0+00	C/L Distance	Item Number	Pipe Footage	WFI?	Clay	Rock	Slurry	Main Line or Service Line (Circle)			Install Method (Circle)			Bore	Insert	HDD
								Part#	Type/Size	Mfg Date	Lot Number	SDR	PE Type			
1								75 90 5	2" Riser	10-6-15	FLA004076-FBR13210	11	2708			
2			14'						2" Pipe	11-11-13	027902-15-L-50211		2706			
3			14'						8" Riser							
4									2" Riser							
5								CA10625	2" Riser	10-15	358055	11	2708			
6								CA11524	4" Riser	7-15	353649	13.5	2708			
7								09028	4" Riser	5-15	343711		3468			
8								CA12160	4" Riser	12-08	147431	11.5	2706			
9			18"					CA10624	4" Riser	11-17-13	B2-019	11	2706			
10									4" Riser	10-14	336378	13.5	2706			
11			18"						4" Riser	11-17-13	B2-014	13.5	2706			
12								99044013	4" Riser	5-15	5546193815	13.5	2706			
13								1000340	4" Riser		848711		3407			
14																
15																
16																
17																
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24																

Note: Footage Column is for wire and pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

Materialist-DIMP

S# ORNG-3-001
 Work Order Number 2015-001
 Date 12-23-2015
 Project Name or Address ELLSWORTH RD.



Starting Point:

(Distance from
nearest intersection)

Soil Type
(Circle)

Install Method
(Circle)

Main Line or Service Line
(Circle)

Sand Loam Clay Rock Slurry

Trench Insert HDD

Station Start at 0+00	C/L Distance	Item Number	Pipe Footage	WF?	Manufacturer	Part#	Type/Size	Mfg Date	Lot Number	SDR	PE Type
1			217		KRISTECH		8 1/2" Trac-Bond				
2					KRISTECH	99054011	4" Fallout	5-15	848711	4710	
3					CRISTECH		4" Fallout	5-15	848711	3408	
4											
5											
6											
7											
8											
9											
10											
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22											
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24											

Note: Footage Column is for wire and pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

F35

MAOP 100 VALVE
 MAOP 200 COUPLING
 MAOP P-PE

1 comp

2 of 2

Material List-DIMP

System#:

Company ORNG

Inventory Ticket No.

Odor/Gas L&R Reference No.

Project Name or Address 7325 Reynolds R.

Date

WO Number

Starting Point:

(Distance from
nearest intersection)

Soil Type (Circle)			Sand	Loam	Clay (Circle)	Rock	Slurry	Main Line of Service Line (Circle)		Install Method (Circle)		Bore	Insert	HDD
Item	Station Start at 0+00	C/L Distance	Item Number	Pipe Footage	WFI?	Manufacturer	Part#	Type/Size	Mfg Date	Lot Number	SDR	PE Type		
1	0+00					Murrell		Tap tee 1"						
2	0+01					Malaysia		2" to 1" reducer						
3	0+01			6'				2" 2' x 50' pipe	7-13					
4	0+07					Dalon		2" valve 300#						
5	0+07			2"				2" pipe Sch 80	7-13					
6	0+08					Malaysia		2" 90° fitting						
7	0+08			3"	↑			2" pipe						
8	0+08							90° fitting						
9	0+08			6"				2" Nipple						
10	0+08					True-gods		Drip bottle		LS3A-007				
11	0+08							2"-1" reducer						
12	0+08							Firm tap		See Attachment				
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Note: Footage Column is for wire and pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

Sys. #:

Material List

Inventory Ticket No.

Odor/Gas L&R Reference No.

Project Name or Address

2325 Palm Tap

Date

WO Number

Starting Point:

(Distance from
nearest intersection)

Station Start at 0+00	C/L Distance	Sand Item Number	Loam Pipe Footage	Clay WFI?	Rock Manufacturer	Slurry	Main Line or Service Line (Circle)	Part#	Type/Size	Mfg Date	Install Method (Circle)	Trench	Lot Number	Bore WFI? - Withdrawl From Inventory?	Insert	SDR	HDD Type
25									1" Valve								
26									3" Nipple								
27					Fisher			627-R	regulator								
28									4" Nipple								
29									1" Tee								
30									6" Nipple								
31					Fisher			289-H	regulator								
32									6" Nipple								
33									1" Tee								
34									12" Nipple								
35									1 Valve								
36									2" Nipple								
37									1" Union								
38																	
39																	
40																	
41																	
42																	
43																	
44																	
45																	
46																	
47																	
48																	

Note: Footage Column is for wire and pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

Material List-DIMP



System #: _____
 Work Order Number _____
 Date 3-7-16
 Project Name or Address _____

Starting Point: 2347 Reynolds Rd

(Distance from
 nearest intersection)

Soil Type (Circle)			Sand	Loam	(Clay)	Rock	Slurry	Main Line or Service Line (Circle)			Install Method (Circle)	Bore	Insert	HDD
Item	Station Start at 0+00	C/L Distance	Item Number	Pipe Footage	WFI?	Manufacturer	Part#	Type/Size	Mfg Date	Lot Number	SDR	PE Type		
1	0+00					Prassee	0090-160-178	Tap tee	12-30-15	685650				
2	0+00			3'				1" sch 80 pipe						
3	0+03					weld bend		2" to 1" reducer						
4	0+03					Baldon		2 1/2" x 2 1/2" x 300# 10-12						
5	0+04					weld bend		2" to 1" reducer						
6	0+04			6'				1" sch 80 pipe						
7	0+10					weld bend		90° 1 1/2" sch 80 fitting						
8	0+10			3'	↑			1" sch 80 pipe						
9	0+10					weld bend		90° sch 80 fitting						
10	0+11			4"				1" sch 80 pipe						
11	0+11					Tru-gas		Drip bore	2015	UMC 52A-033				
12	0+11					Majdac		Farm tap						
13	0+11							Anode						
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Note: Footage Column is for pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

Mate List

System#:

Inventory Ticket No.

Odor/Gas L&R Reference No.

Project Name or Address 7319 Reynolds Rd

Date 3/4/16 WO Number

Starting Point:

(Distance from
nearest intersection)

Soil Type (Circle)		Sand	Loam	Clay	Rock	Slurry	Main Line or Service Line (Circle)		Install Method (Circle)	Bore WFI - Withdrawl From Inventory?	Insert	HDD
Item	Station Start at 0+00	C/L Distance	Item Number	Pipe Footage	WFI?	Manufacturer	Part#	Type/Size	Mfg Date	Lot Number	SDR	PE Type
25	0+00					Draxler	2090-601-187	1" tap tee	12-30-15	685650		
26	0+06			3'				1" sch 80 pipe				
27	0+03							2" sch 80 reducer				
28	0+03					Baker		2" valve 300# class				
29	0+04							2" sch 80 reducer				
30	0+04			5'				1" sch 80 pipe				
31	0+09					weld bend		90° sch 80 fitting				
32	0+09			4'	↑			1" sch 80 pipe				
33	0+09					weld bend		90° sch 80 fitting				
34	0+10			3"				sch 80 pipe 1"				
35	0+10					True-gas		clip bottle	2015	14524H-028		
36	0+10							20# Anode				
37	0+10					Majac		Farm tank				
38												
39												
40												
41												
42												
43												
44												
45												
46												
47												
48												

Note: Footage Column is for wire and pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

Mate, / List

System#:

Inventory Ticket No.

Odor/Gas L&R Reference No.

Project Name or Address

7371 Reynolds Rd.

Date 3-8-16

WO Number

Starting Point:

(Distance from

nearest intersection)

Station (Circle)	Station Start at 0+00	C/L Distance	Sand Item Number	Loam Pipe Footage	Clay WF?	Rock Manufacturer	Slurry	Main Line or Service Line (Circle)	Type/Size	Mfg Date	Install Method (Circle)	Bore WF? - Withdrawl From Inventory?	Insert SDR	HDD Type
25	0+00					Dresser		0090160119	1" cap tee	12-30-15				
26	0+01			4'					1" sch 80 pipe					
27	0+05					weldbend			2" col 1" reducer					
28	0+05					Balon			2" valve 300# elbow	10-12				
29	0+05					weldbend			2" col 1" reducer					
30	0+05			3'					1" sch 80 pipe					
31	0+08								90° sch 80 pipe					
32	0+08			3'					1" sch 80 pipe					
33	0+08								90° sch 80 fitting					
34	0+08			4"					1" sch 80 pipe					
35	0+09					Tri-gas			Drip bottle	2015				
36	0+09								20" Anode					
37	0+09					maxide			Farm tap					
38														
39														
40														
41														
42														
43														
44														
45														
46														
47														
48														

Note: Footage Column is for wire and pipe only. Since each item could have a unique Mfg Date and Lot Number, each item MUST have its own entry line

Response Statistics

2015/2016

[Exit](#)

Date 1/1/15 through 08/29/16 (individual day statistics go back 90 days. Before that must use whole months.)

[Submit](#) [ASCII](#)

Response statistics for date range 1/1/2015 through 08/29/16

code	001	002	003	999	TOTAL
ORNP	122	11	2	36	171
TOTAL	122	11	2	36	171

Legend

Type	Description
001	No conflict
002	Marked - up to privately owned utility
003	Ticket cancelled
999	No Response given within the 48 hours

[Exit](#)

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2016

Response Statistics

[Exit](#)

Date 1/1/16 through 8/29/16 (individual day statistics go back 90 days. Before that must use whole months.)

[Submit](#) [ASCII](#)

Response statistics for date range 1/1/2016 through 8/29/16

code	001	002	003	999	TOTAL
ORNP	122	11	1	10	144
TOTAL	122	11	1	10	144

Legend

Type	Description
001	No conflict
002	Marked - up to privately owned utility
003	Ticket cancelled
999	No Response given within the 48 hours

[Exit](#)

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Response Statistics

2015

[Exit](#)

Date 1/1/15 through 12/31/15 (individual day statistics go back 90 days. Before that must use whole months.)

[Submit](#) [ASCII](#)

Response statistics for date range 1/1/2015 through 12/31/15

code	003	999	TOTAL
ORNP	1	26	27
TOTAL	1	26	27

Legend

Type	Description
003	Ticket cancelled
999	No Response given within the 48 hours

[Exit](#)

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Ohio Rural Natural Gas Service Line Order (SLO)

Date: 10-1-15	Crew: Jack	Prepared By: Serickland	ML WO#	SL WO#
Address: 7001 Center St + Federal Court		Cty/Twp: Mentor	Sub./Lot#:	
Cust. Name: Osair	Sys. Name & No.:	Bldg. Type Res	Com <input checked="" type="checkbox"/>	Indus. <input type="checkbox"/>

Company SL Info: New <input checked="" type="checkbox"/> Repair <input type="checkbox"/> Replace <input type="checkbox"/>	Customer SL Info: New <input checked="" type="checkbox"/> Repair <input type="checkbox"/> Replace <input type="checkbox"/>
Size: 2" Length: 141 PL <input checked="" type="checkbox"/> SDR // ST <input type="checkbox"/> WT	Size: 2" Length: 109 PL <input checked="" type="checkbox"/> SDR // ST <input type="checkbox"/> WT
Installer: (Name or) ORNG Contractor <input type="checkbox"/>	Installer: (Name or) DINEN Contractor <input type="checkbox"/>
Mtr Size/Tag# Reg/Orf	Billable: Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Direct Observation <input type="checkbox"/>
EFV Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> SL Valve Yes <input type="checkbox"/> No <input type="checkbox"/>	
Tested By: Jack Pressure 90 PSIG (PSIG) Duration 1 hour Med Air Acceptable Test: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Tested By: Pressure (PSIG) Duration Med Acceptable Test: Y <input type="checkbox"/> N <input type="checkbox"/>

Main Line Information

Pipe Type Pipe Diameter: 2" Is the pipe able to be located? Y ☒ N ☐

☒ Plastic
☐ Steel (☐ Fusion Bonded Epoxy ☐ Extruded Polyethylene ☐ Tar & Wrap ☐ Bare)
☐ Other (Specify:)

Pipe Details: (MFG: Type: Wall Thickness/SDR: MFG Date:)

Internal Inspection
Is the inside pipe accessible: Y ☐ N ☒ Internal Condition (If accessible) ☐ Smooth ☐ Pitted & Depth:
Any Fluid: Y ☐ N ☒ Type of Fluid:

External Inspection
Is the pipe under Cathodic Protection: Y ☐ N ☒ Pipe Condition: ☒ Smooth ☐ Pitted & Depth:
Coating Condition (If Coated): ☐ Good ☐ Fair ☐ Poor Backfill Condition: ☐ Good ☒ Fair ☐ Poor
New Anodes Installed: Y ☐ N ☒ How Many: Anode Size:

Use sketch area to list additional fitting information

Sketch

Indicate North

GPS Coordinates of Tap: Longitude (X):	Latitude (Y):	
House Riser to nearest corner of structure	C/L Dr. to EFV/Vlv.	C/L of St. to EFV/Vlv.
Farm Tap Riser to nearest corner of structure	C/L Dr. to EFV/Vlv.	C/L of St. to EFV/Vlv.
Tested and installed according to current O&M Procedures-Signature		Date

Ohio Rural Natural Gas Service Line Order (SLO)

Date: _____ Crew: DALE STRICKLAND Prepared By: _____ ML WO# L8-2015 SL WO# -0-
Address: 6970 WILLIAMS RD Cty/Twp Concord TWP Sub./Lot#: 08A0066000090
Cust. Name Richard W. OSBORNE Sys. Name & No.: T1-005 WILLIAMS RD BARN Bldg. Type Res ☒ Com ☐ Indus. ☐

Company SL Info: New <input checked="" type="checkbox"/> Repair <input type="checkbox"/> Replace <input type="checkbox"/>		Customer SL Info: New <input type="checkbox"/> Repair <input type="checkbox"/> Replace <input type="checkbox"/>	
Size: <u>1"</u> Length: <u>3'</u> PL <input type="checkbox"/> SDR <input type="checkbox"/> ST <input checked="" type="checkbox"/> WT <u>0.179</u>	Size: <u>1"</u> Length: <u>102'</u> PL <input checked="" type="checkbox"/> SDR <input type="checkbox"/> ST <input type="checkbox"/> WT <input type="checkbox"/>	Installer: (Name or) _____ Contractor <input type="checkbox"/>	Installer: (Name or) <u>ORWELL GAS</u> Contractor <input type="checkbox"/>
Mtr Size/Tag# <u>400/</u> Reg/Orf <u>3/16</u>	Billable: Y <input type="checkbox"/> N <input type="checkbox"/> NATURAL Direct Observation <input type="checkbox"/>	EFV Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> SL Valve Yes <input type="checkbox"/> No <input type="checkbox"/>	SL Info: <u>ORWELL NAT GAS</u> <u>#5223807 3/30/11</u>
Tested By: _____ Pressure (PSIG) _____ Duration _____ Med _____	Acceptable Test: Y <input type="checkbox"/> N <input type="checkbox"/>	Tested By: _____ Pressure (PSIG) _____ Duration _____ Med _____	Acceptable Test: Y <input type="checkbox"/> N <input type="checkbox"/>

Main Line Information

Pipe Type _____ Pipe Diameter: 2" Is the pipe able to be located? Y ☒ N ☐

☐ Plastic
☒ Steel (☒ Fusion Bonded Epoxy ☐ Extruded Polyethylene ☐ Tar & Wrap ☐ Bare)
☐ Other (Specify: _____)

Pipe Details: (MFG: _____ Type: Steel X 42 Wall Thickness/SDR: .154" MFG Date: _____)

Internal Inspection
Is the inside pipe accessible: Y ☐ N ☒ Internal Condition (If accessible) ☐ Smooth ☐ Pitted & Depth: _____
Any Fluid: Y ☐ N ☒ Type of Fluid: NA

External Inspection
Is the pipe under Cathodic Protection: Y ☐ N ☐ Pipe Condition: ☒ Smooth ☐ Pitted & Depth: _____
Coating Condition (If Coated): ☒ Good ☐ Fair ☐ Poor Backfill Condition: ☒ Good ☐ Fair ☐ Poor
New Anodes Installed: Y ☐ N ☐ How Many: 0 Anode Size: 0

Use sketch area to list additional fitting information

Sketch

Indicate North

76' 4L EAST CASCADE RD WILLIAMS RD
EDGE OF RIVER TO METER 150'
C/L of WILLIAMS RD TO METER 134'
DRIVEWAY TO VALVE 37'

GPS Coordinates of Tap: Longitude (X): 81° 11' 59" W Latitude (Y): 41° 40' 52" N
House Riser to nearest corner of structure _____ C/L Dr. to EFV/Vlv. _____ C/L of St. to EFV/Vlv. _____
Farm Tap Riser to nearest corner of structure _____ C/L Dr. to EFV/Vlv. _____ C/L of St. to EFV/Vlv. _____
Tested and installed according to current O&M Procedures-Signature _____ Date 04/15/2015

Service Line Order (SLO)

Company

Date: 3-16-16 Crew: _____ Prepared By: _____ ML WO# _____ SL WO# _____
 Address: 9230 Sugarbush Cty/Twp MENTOR Sub./Lot#: _____
 Cust. Name PROBUKIT HOMES Sys. Name & No.: _____ Bldg. Type Res ☒ Com ☐ Indus. ☐

Company SL Info: New ☐ Repair ☐ Replace ☐ Customer SL Info: New ☐ Repair ☐ Replace ☐
 Size: _____ Length: _____ FL ☐ SDR _____ ST ☐ WT _____
 Installer: (Name or) _____ Contractor ☐
 Mtr Size/Tag# _____ Reg/Orf _____
 EFV Yes ☐ No ☐ SL Valve Yes ☐ No ☐
 Billable: Y ☐ N ☐ Direct Observation ☐
 Tested By: Bradley Edgel Pressure 120 (PSIG) Duration 10 MIN Acceptable Test: Y ☒ N ☐
 Tested By: _____ Pressure _____ (PSIG) Duration _____ Acceptable Test: Y ☐ N ☐

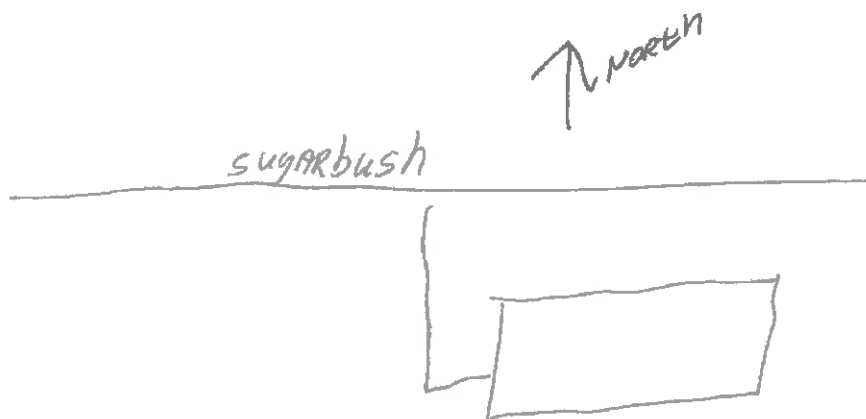
Main Line Information

Line Type _____ Pipe Type _____ Pipe Size: 2" Is the pipe able to be located Y ☒ N ☐
☐ Transmission ☐ Steel (☐ Fusion Bonded Epoxy ☐ Extruded Polyethylene ☐ Tar & Wrap ☐ Bare)
☒ Distribution ☐ Cast Iron
☐ Service Line ☒ Plastic
☐ Gathering ☐ Other
 Pipe Details: (MFG: _____ Lot #: _____ Wall Thickness/SDR: _____ MFG Date: _____)
Internal Inspection
 Is the inside pipe accessible: Y ☐ N ☒ Internal Condition (If accessible) ☐ Smooth ☐ Pitted & Depth: _____
 Any Fluid: Y ☐ N ☒ Type of Fluid: _____
External Inspection
 Is the pipe under Cathodic Protection: Y ☐ N ☒ Pipe Condition: ☒ Smooth ☐ Pitted & Depth: _____
 Coating Condition (If Coated): ☐ Good ☐ Fair ☐ Poor Backfill Condition: ☐ Good ☐ Fair ☐ Poor
 New Anodes Installed: Y ☐ N ☒ How Many: _____ Anode Size: _____

Use sketch area to list additional fitting information

Sketch

Indicate North



GPS Coordinates of Tap: Longitude (X): _____ Latitude (Y): _____
 House Riser to nearest corner of structure Right C/L Dr. to EFV/Vlv. _____ C/L of St. to EFV/Vlv. _____
 Farm Tap Riser to nearest corner of structure _____ C/L Dr. to EFV/Vlv. _____ C/L of St. to EFV/Vlv. _____
 Tested and installed according to current O&M Procedures-Signature Bradley Edgel Date 3-16-16
 F-34R2

Ohio Rural Natural Gas Service Line Order (SLO)

Date: 3-9-16 Crew: ORNG Prepared By: Strickland ML WO# SL WO#
Address: 7342 Reynolds Rd Cty/Twp Monte Sub./Lot#:
Cust. Name Sys. Name & No.: Bldg. Type Res ☐ Com ☐ Indus. ☐

Company SL Info: New ☒ Repair ☐ Replace ☐

Size: 1" Length: 31' PL ☒ SDR 11.5 ST ☐ WT
Installer: (Name or) ORNG Contractor ☐
Mtr Size/Tag# Reg/Orf
EFV Yes ☒ No ☐ SL Valve Yes ☐ No ☐

Customer SL Info: New ☒ Repair ☐ Replace ☐

Size: 1" Length: 21' PL ☒ SDR 11.5 ST ☐ WT
Installer: (Name or) Contractor ☐
Billable: Y ☐ N ☐ Direct Observation ☐

Tested By: T Rowland Pressure 90 PSI (PSIG) Duration 10 min Med Air Acceptable Test: Y ☒ N ☐
Tested By: Pressure (PSIG) Duration Med Acceptable Test: Y ☐ N ☐

Main Line Information

Pipe Type Pipe Diameter: 2" Is the pipe able to be located? Y ☒ N ☐

☐ Plastic
☒ Steel (☐ Fusion Bonded Epoxy ☐ Extruded Polyethylene ☒ Tar & Wrap ☐ Bare)
☐ Other (Specify:)

Pipe Details: (MFG:) Type: Wall Thickness/SDR: MFG Date:)

Internal Inspection

Is the inside pipe accessible: Y ☐ N ☒ Internal Condition (If accessible) ☐ Smooth ☐ Pitted & Depth:
Any Fluid: Y ☐ N ☒ Type of Fluid:

External Inspection

Is the pipe under Cathodic Protection: Y ☒ N ☐ Pipe Condition: ☒ Smooth ☐ Pitted & Depth:
Coating Condition (If Coated): ☒ Good ☐ Fair ☐ Poor Backfill Condition: ☐ Good ☒ Fair ☐ Poor
New Anodes Installed: Y ☒ N ☐ How Many: 1 Anode Size: 20 #

Use sketch area to list additional fitting information

Sketch

Indicate North

GPS Coordinates of Tap: Longitude (X):

Latitude (Y):

House Riser to nearest corner of structure

C/L Dr. to EFV/Vlv.

C/L of St. to EFV/Vlv.

Farm Tap Riser to nearest corner of structure

C/L Dr. to EFV/Vlv.

C/L of St. to EFV/Vlv.

Tested and installed according to current O&M Procedures-Signature

Date

Ohio Rural Natural Gas Service Line Order (SLO)

Date: 3-9-16 Crew: ORNL Prepared By: T. P. R. R. ML WO# _____ SL WO# _____
Address: 1317 Reynolds Rd Cty/Twp St. Clair Sub./Lot#: _____
Cust. Name Salopeck Sys. Name & No.: _____ Bldg. Type Res ☒ Com ☐ Indus. ☐

Company SL Info: New ☐ Repair ☒ Replace ☐

Size: 1" Length: 110' PL ☒ SDR 16.5 ST ☐ WT _____
Installer: (Name or) ORNL Contractor ☐
Mtr Size/Tag# _____ Reg/Orf _____
EFV Yes ☒ No ☐ SL Valve Yes ☐ No ☐

Customer SL Info: New ☐ Repair ☒ Replace ☐

Size: 1" Length: 110' PL ☒ SDR 16.5 ST ☐ WT _____
Installer: (Name or) ORNL Contractor ☐
Billable: Y ☐ N ☐ Direct Observation ☐

Tested By: Rowland Pressure 90 PSI (PSIG) Duration 10 min Med ATV Acceptable Test: Y ☒ N ☐
Tested By: _____ Pressure _____ (PSIG) Duration _____ Med _____ Acceptable Test: Y ☐ N ☐

Main Line Information

Pipe Type _____ Pipe Diameter: 2" Is the pipe able to be located? Y ☒ N ☐

☐ Plastic
☒ Steel (☐ Fusion Bonded Epoxy ☐ Extruded Polyethylene ☒ Tar & Wrap ☐ Bare)
☐ Other (Specify: _____)

Pipe Details: (MFG: _____ Type: _____ Wall Thickness/SDR: _____ MFG Date: _____)

Internal Inspection

Is the inside pipe accessible: Y ☐ N ☒ Internal Condition (If accessible) ☐ Smooth ☐ Pitted & Depth: _____
Any Fluid: Y ☐ N ☒ Type of Fluid: _____

External Inspection

Is the pipe under Cathodic Protection: Y ☒ N ☐ Pipe Condition: ☒ Smooth ☐ Pitted & Depth: _____
Coating Condition (If Coated): ☒ Good ☐ Fair ☐ Poor Backfill Condition: ☐ Good ☒ Fair ☐ Poor
New Anodes Installed: Y ☒ N ☐ How Many: 1 Anode Size: 20#

Use sketch area to list additional fitting information

Sketch

Indicate North

GPS Coordinates of Tap: Longitude (X): _____

Latitude (Y): _____

House Riser to nearest corner of structure

C/L Dr. to EFV/Vlv. _____

C/L of St. to EFV/Vlv. _____

Farm Tap Riser to nearest corner of structure

C/L Dr. to EFV/Vlv. _____

C/L of St. to EFV/Vlv. _____

Tested and installed according to current O&M Procedures-Signature _____

Date _____

Ohio Rural Natural Gas Service Line Order (SLO)

Date: 3-29-16 Crew: ORNG Prepared By: Rowden ML WO# _____ SL WO# _____
Address: 7371 Reynolds Rd Cty/Twp Mentor Sub./Lot#: _____
Cust. Name Tillotte Sys. Name & No.: _____ Bldg. Type Res ☒ Com ☐ Indus. ☐

Company SL Info: New ☐ Repair ☒ Replace ☐

Size: /" Length: 80' PL ☒ SDR 11.5 ST ☐ WT _____

Installer: (Name or) ORNG Contractor ☐

Mtr Size/Tag# _____ Reg/Orf _____

EFV Yes ☒ No ☐ SL Valve Yes ☐ No ☐

Customer SL Info: New ☐ Repair ☒ Replace ☐

Size: /" Length: 80' PL ☒ SDR 11.5 ST ☐ WT _____

Installer: (Name or) ORNG Contractor ☐

Billable: Y ☐ N ☐ Direct Observation ☐

Tested By: Rowden Pressure 90 (PSIG) Duration 10 min Med Air Acceptable Test: Y ☒ N ☐

Tested By: _____ Pressure _____ (PSIG) Duration _____ Med _____ Acceptable Test: Y ☐ N ☐

Main Line Information

Pipe Type _____ Pipe Diameter: 2" Is the pipe able to be located? Y ☒ N ☐

☐ Plastic

☒ Steel (☐ Fusion Bonded Epoxy ☐ Extruded Polyethylene ☒ Tar & Wrap ☐ Bare)

☐ Other (Specify: _____)

Pipe Details: (MFG: _____ Type: _____ Wall Thickness/SDR: _____ MFG Date: _____)

Internal Inspection

Is the inside pipe accessible: Y ☐ N ☒ Internal Condition (If accessible) ☐ Smooth ☐ Pitted & Depth: _____

Any Fluid: Y ☐ N ☒ Type of Fluid: _____

External Inspection

Is the pipe under Cathodic Protection: Y ☒ N ☐ Pipe Condition: ☒ Smooth ☐ Pitted & Depth: _____

Coating Condition (If Coated): ☒ Good ☐ Fair ☐ Poor Backfill Condition: ☐ Good ☒ Fair ☐ Poor

New Anodes Installed: Y ☒ N ☐ How Many: 1 Anode Size: 20"

Use sketch area to list additional fitting information

Sketch

Indicate North

GPS Coordinates of Tap: Longitude (X): _____

Latitude (Y): _____

House Riser to nearest corner of structure

C/L Dr. to EFV/Vlv. _____

C/L of St. to EFV/Vlv. _____

Farm Tap Riser to nearest corner of structure

C/L Dr. to EFV/Vlv. _____

C/L of St. to EFV/Vlv. _____

Tested and installed according to current O&M Procedures-Signature _____

Date _____

Ohio Rural Natural Gas Service Line Order (SLO)

Date: 11-12-15 Crew: ORNG - D. Strickland Prepared By: ML WO# L4-2015 SL WO# L4-2015
Address: 800 OAK ST. Pville Cty/Twp Pville Ohio Sub./Lot#:
Cust. Name LAKE GEORGE Recovery Center Sys. Name & No. ORNG TI-001 Bldg. Type Res ☐ Com ☐ Indus. ☐

Company SL Info: New ☒ Repair ☐ Replace ☐

Size: 1" Length: 4' PL ☒ SDR ST ☐ WT
Installer: (Name or) ORNG Contractor ☒
Mtr Size/Tag# Reg/Orf
EFV Yes ☐ No ☐ SL Valve Yes ☒ No ☐

Customer SL Info: New ☒ Repair ☐ Replace ☐

Size: 1" Length: 165' PL ☒ SDR ST ☐ WT
Installer: (Name or) ORNG Contractor ☐
Billable: Y ☐ N ☒ Direct Observation ☐

Tested By: Strickland Pressure 90 (PSIG) Duration 10 min Med Air Acceptable Test: Y ☒ N ☐

Tested By: Strickland Pressure 750 (PSIG) Duration 22 hrs Med Nitrogen Acceptable Test: Y ☒ N ☐

Main Line Information

Pipe Type Pipe Diameter: 8" Is the pipe able to be located? Y ☒ N ☐

☐ Plastic
☒ Steel (☐ Fusion Bonded Epoxy ☒ Extruded Polyethylene ☐ Tar & Wrap ☐ Bare)
☐ Other (Specify:)

Pipe Details: (MFG: Type: Wall Thickness/SDR: MFG Date:)

Internal Inspection

Is the inside pipe accessible: Y ☐ N ☒ Internal Condition (If accessible) ☐ Smooth ☐ Pitted & Depth:
Any Fluid: Y ☐ N ☒ Type of Fluid:

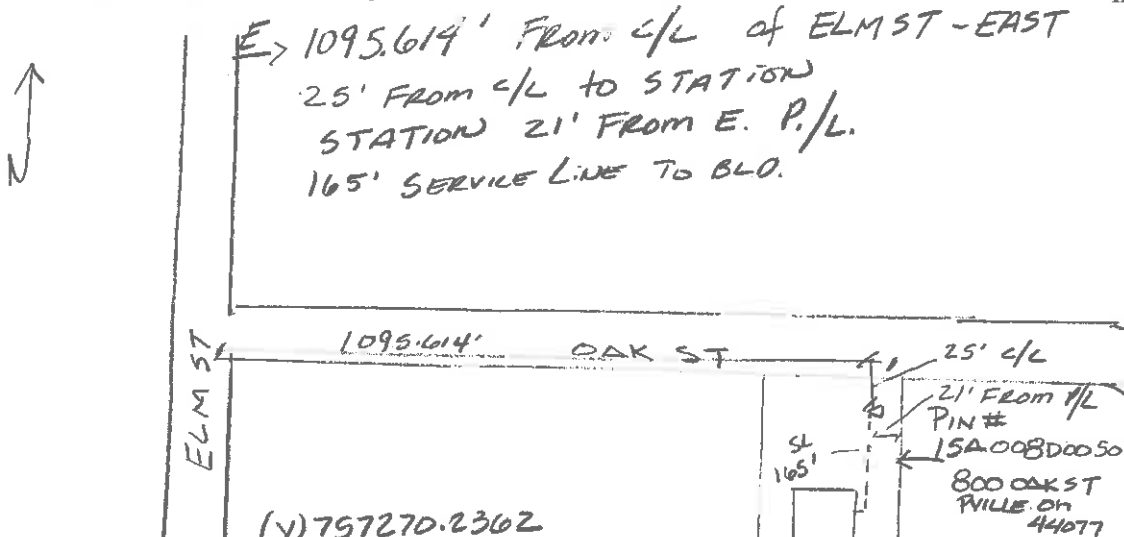
External Inspection

Is the pipe under Cathodic Protection: Y ☒ N ☐ Pipe Condition: ☒ Smooth ☐ Pitted & Depth:
Coating Condition (If Coated): ☒ Good ☐ Fair ☐ Poor Backfill Condition: ☒ Good ☐ Fair ☐ Poor
New Anodes Installed: Y ☐ N ☒ How Many: Anode Size:

Use sketch area to list additional fitting information

Sketch

Indicate North



GPS Coordinates of Tap: Longitude (X): 2312880.4272

Latitude (Y):

House Riser to nearest corner of structure

C/L Dr. to EFV/Vlv.

C/L of St. to EFV/Vlv.

Farm Tap Riser to nearest corner of structure

C/L Dr. to EFV/Vlv.

C/L of St. to EFV/Vlv.

Tested and installed according to current O&M Procedures-Signature

Date

Ohio Rural Natural Gas Service Line Order (SLO)

Date: 9-24-15 Crew: ORNG Prepared By: _____ ML WO# _____ SL WO# _____
Address: 13164 Leroy Center Cty/Twp Leroy Sub./Lot#: _____
Cust. Name MUZIC Sys. Name & No.: _____ Bldg. Type Res ☐ Com ☐ Indus. ☐

Company SL Info: New ☒ Repair ☐ Replace ☐

Size: 1" Length: 76' PL ☒ SDR 11 ST ☐ WT _____
Installer: (Name or) ORNG Contractor ☐
Mtr Size/Tag# _____ Reg/Orf _____
EFV Yes ☐ No ☒ SL Valve Yes ☒ No ☐

Customer SL Info: New ☒ Repair ☐ Replace ☐

Size: 1" Length: 76' PL ☒ SDR 11 ST ☐ WT _____
Installer: (Name or) ORNG Contractor ☐
Billable: Y ☐ N ☐ Direct Observation ☐

Tested By: ORNG Pressure 90 (PSIG) Duration 10 Min Med Air Acceptable Test: Y ☒ N ☐
Tested By: _____ Pressure _____ (PSIG) Duration _____ Med _____ Acceptable Test: Y ☐ N ☐

Main Line Information

Pipe Type _____ Pipe Diameter: _____ Is the pipe able to be located? Y ☒ N ☐

☐ Plastic
☒ Steel (☒ Fusion Bonded Epoxy ☐ Extruded Polyethylene ☐ Tar & Wrap ☐ Bare)
☐ Other (Specify: _____)

Pipe Details: (MFG: _____ Type: _____ Wall Thickness/SDR: _____ MFG Date: _____)

Internal Inspection

Is the inside pipe accessible: Y ☐ N ☒ Internal Condition (If accessible) ☐ Smooth ☐ Pitted & Depth: _____
Any Fluid: Y ☐ N ☐ Type of Fluid: _____

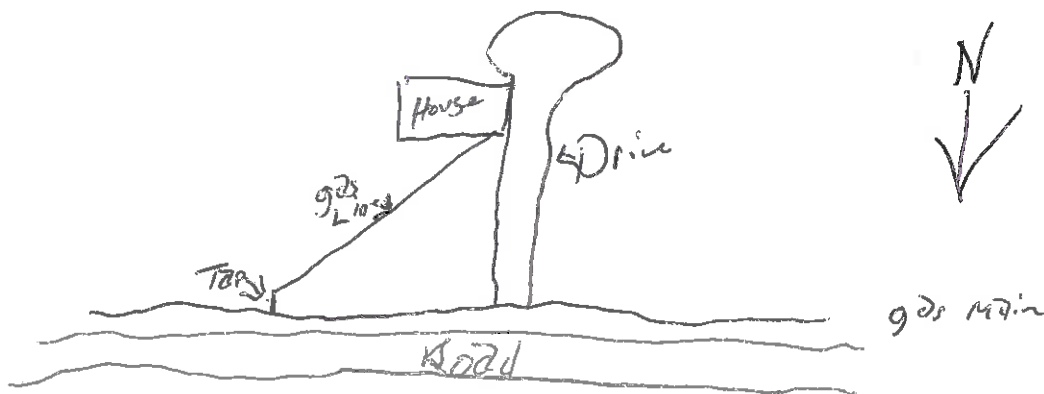
External Inspection

Is the pipe under Cathodic Protection: Y ☐ N ☐ Pipe Condition: ☒ Smooth ☐ Pitted & Depth: _____
Coating Condition (If Coated): ☒ Good ☐ Fair ☐ Poor Backfill Condition: ☒ Good ☐ Fair ☐ Poor
New Anodes Installed: Y ☐ N ☒ How Many: _____ Anode Size: _____

Use sketch area to list additional fitting information

Sketch

Indicate North



GPS Coordinates of Tap: Longitude (X): _____

Latitude (Y): _____

House Riser to nearest corner of structure

C/L Dr. to EFV/Vlv.

C/L of St. to EFV/Vlv.

Farm Tap Riser to nearest corner of structure

C/L Dr. to EFV/Vlv.

C/L of St. to EFV/Vlv.

Tested and installed according to current O&M Procedures-Signature Paul Sull

Date 9-24-15

Ohio Rural Natural Gas Service Line Order (SLO)

Date: 9-21-15 Crew: _____ Prepared By: Strickland ML WO# _____ SL WO# _____
Address: 12321 Carter Rd Cty/Twp Cincinnati Sub./Lot#: _____
Cust. Name Dove Sys. Name & No.: _____ Bldg. Type Res ☒ Com ☐ Indus. ☐

Company SL Info: New ☒ Repair ☐ Replace ☐

Size: 1" Length: 15' PL ☒ SDR 11 ST ☐ WT _____
Installer: (Name or) ORNG Contractor ☐
Mtr Size/Tag# _____ Reg/Orf _____
EFV Yes ☐ No ☒ SL Valve Yes ☒ No ☐

Customer SL Info: New ☒ Repair ☐ Replace ☐

Size: 1" Length: 130' PL ☒ SDR 11 ST ☐ WT _____
Installer: (Name or) ORNG Contractor ☐
Billable: Y ☒ N ☐ Direct Observation ☐

Tested By: ORNG Pressure 90 (PSIG) Duration 10 min Med Piv Acceptable Test: Y ☒ N ☐

Tested By: Strickland Pressure 750 (PSIG) Duration _____ Med With royn Acceptable Test: Y ☒ N ☐

Main Line Information

Pipe Type _____ Pipe Diameter: 2" Is the pipe able to be located? Y ☒ N ☐

☐ Plastic
☒ Steel (☐ Fusion Bonded Epoxy ☐ Extruded Polyethylene ☒ Tar & Wrap ☐ Bare)
☐ Other (Specify: _____)

Pipe Details: (MFG: _____ Type: _____ Wall Thickness/SDR: _____ MFG Date: _____)

Internal Inspection

Is the inside pipe accessible: Y ☐ N ☒ Internal Condition (If accessible) ☐ Smooth ☐ Pitted & Depth: _____
Any Fluid: Y ☐ N ☒ Type of Fluid: _____

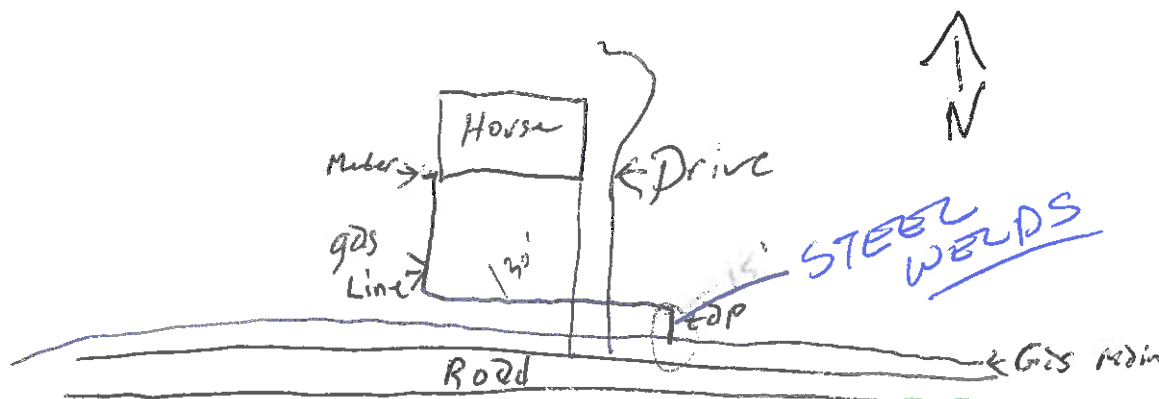
External Inspection

Is the pipe under Cathodic Protection: Y ☐ N ☐ Pipe Condition: ☒ Smooth ☐ Pitted & Depth: _____
Coating Condition (If Coated): ☒ Good ☐ Fair ☐ Poor Backfill Condition: ☒ Good ☐ Fair ☐ Poor
New Anodes Installed: Y ☐ N ☒ How Many: _____ Anode Size: _____

Use sketch area to list additional fitting information

Sketch

Indicate North



GPS Coordinates of Tap: Longitude (X): _____

Latitude (Y): _____

House Riser to nearest corner of structure _____

C/L Dr. to EFV/Vlv. _____

C/L of St. to EFV/Vlv. _____

Farm Tap Riser to nearest corner of structure _____

C/L Dr. to EFV/Vlv. _____

C/L of St. to EFV/Vlv. _____

Tested and installed according to current O&M Procedures-Signature Dave Smith

Date 9-21-15

OHIO RURAL NATURAL GAS LINE PATROL REPORT (§192.721)

System Name: CARVER RD DOWD

System No: ORUG TI-002

Area covered: From: 43' EAST of Property Line - 97' Along Front of
To: Property ALONG ORWID4 & 130' Along Service Line
SEE MAP

System type: ☐ Distribution ☐ Transmission

Class location: ☐ 1 ☐ 2 ☒ 3 ☐ 4

Patrol frequency: ☐ 4 Times/yr ☐ 2 Times/yr ☐ Annual

☐ 5 years

☐ Other _____

Method used to patrol: ☐ Truck ☒ Walk ☐ Other: _____

Were any leaks found: ☐ yes ☒ no

If yes, gas leak and repair report no: _____

Was there any construction along or near the pipeline system: ☐ yes ☒ no

If yes, give reference to nearest line marker or address: _____

Were there any unusual conditions found at any of the following places:

☒ None Found

☐ Highway

☐ Steams/Rivers

☐ Foreign Pipeline

☐ Railroad

☐ Buildings

Other: _____

Are there any factors that could affect the present or future safety of this system: ☐ yes ☒ no

If yes, explain: _____

Are there missing line markers anywhere in the system?: ☐ yes ☒ no

If yes, give location: _____

If yes to any above question, to whom was it reported: _____

Comments: _____

Performed By: [Signature]

Date: 2-4-16

Carver Rd

OHIO RURAL NATURAL GAS LINE PATROL REPORT (§192.721)

System Name: OAK ST.

System No: ORNG T1-001

Area covered:

From: North West End of Property 267' EAST Along

To: Cobra's Pipeline South 200' Along Service Line

System type:

☐ Distribution

☐ Transmission

Class location:

☐ 1

☐ 2

☒ 3

☐ 4

Patrol frequency:

☒ 4 Times/yr

☐ 2 Times/yr

☐ Annual

☐ 5 years

☐ Other _____

Method used to patrol:

☐ Truck

☒ Walk

☐ Other: _____

Were any leaks found:

☐ yes

☒ no

If yes, gas leak and repair report no: _____

Was there any construction along or near the pipeline system:

☐ yes

☒ no

If yes, give reference to nearest line marker or address: _____

Construction Completed

Were there any unusual conditions found at any of the following places:

☒ None Found

☐ Highway

☐ Steams/Rivers

☐ Foreign Pipeline

☐ Railroad

☐ Buildings

Other: _____

Are there any factors that could affect the present or future safety of this system:

☐ yes

☒ no

If yes, explain: _____

Are there missing line markers anywhere in the system?:

☐ yes

☒ no

If yes, give location: _____

If yes to any above question, to whom was it reported: _____

Comments: _____

Performed By: _____

DAVE Stanish

OAK ST

Date: _____

7-9-16

OHIO RURAL NATURAL GAS LINE PATROL REPORT (§192.721)

System Name: Williams Rd Barn

System No: T1-005

Area covered:

From: TAP 80' West ALONG OTP 104 North 200'
To: ALONG OTP 104 ALONG SERVICE LINE - ALONG ORW 628
62'

System type: ☐ Distribution ☐ Transmission

Class location: ☐ 1 ☐ 2 ☒ 3 ☐ 4

Patrol frequency: ☒ 4 Times/yr ☐ 2 Times/yr ☐ Annual
☐ 5 years ☐ Other

Method used to patrol: ☐ Truck ☒ Walk ☐ Other:

Were any leaks found: ☐ yes ☒ no

If yes, gas leak and repair report no: _____

Was there any construction along or near the pipeline system: ☐ yes ☒ no

If yes, give reference to nearest line marker or address: _____

Were there any unusual conditions found at any of the following places:

☐ None Found

☐ Highway

☒ Steams/Rivers

☒ Foreign Pipeline

☐ Railroad

☐ Buildings

Other: Pipe Line ORW 628 60 MAOP SOR 11 2" PE 2406
OTP 104 2" STEEL MAOP 560

Are there any factors that could affect the present or future safety of this system: ☐ yes ☒ no

If yes, explain: _____

Are there missing line markers anywhere in the system?: ☐ yes ☒ no

If yes, give location: _____

If yes to any above question, to whom was it reported: _____

Comments: _____

Performed By: Sub Staff

Date: 2-4-16

Williams Rd Barn

OHIO RURAL NATURAL GAS LINE PATROL REPORT (§192.721)

System Name: Sandhead System No: T1-006

Area covered: From: Williams Rd.
To: house

System type: ☒ Distribution ☐ Transmission

Class location: ☐ 1 ☐ 2 ☒ 3 ☐ 4

Patrol frequency: ☒ 4 Times/yr ☐ 2 Times/yr ☐ Annual
☐ 5 years ☐ Other _____

Method used to patrol: ☐ Truck ☒ Walk ☐ Other: _____

Were any leaks found: ☐ yes ☒ no

If yes, gas leak and repair report no: _____

Was there any construction along or near the pipeline system: ☐ yes ☒ no

If yes, give reference to nearest line marker or address: _____

Were there any unusual conditions found at any of the following places:

☒ None Found ☐ Steams/Rivers ☐ Railroad
☐ Highway ☐ Foreign Pipeline ☐ Buildings

Other: _____

Are there any factors that could affect the present or future safety of this system: ☐ yes ☒ no

If yes, explain: _____

Are there missing line markers anywhere in the system?: ☐ yes ☒ no

If yes, give location: _____

If yes to any above question, to whom was it reported: _____

Comments: _____

Performed By: Dave Sernick Date: 2-4-16

OHIO RURAL NATURAL GAS LINE PATROL REPORT (§192.721)

System Name: Ellsworth Rd

System No: ORW193-001

Area covered: From: Ellsworth

To: S. DUCK CREEK Rd

System type: ☒ Distribution ☐ Transmission

Class location: ☐ 1 ☐ 2 ☒ 3 ☐ 4

Patrol frequency: ☒ 4 Times/yr ☐ 2 Times/yr ☐ Annual

☐ 5 years ☐ Other _____

Method used to patrol: ☐ Truck ☒ Walk ☐ Other: _____

Were any leaks found: ☐ yes ☒ no

If yes, gas leak and repair report no: _____

Was there any construction along or near the pipeline system: ☐ yes ☒ no

If yes, give reference to nearest line marker or address: _____

Were there any unusual conditions found at any of the following places:

☐ None Found

☒ Steams/Rivers

☐ Railroad

☐ Highway

☐ Foreign Pipeline

☐ Buildings

Other: _____

Are there any factors that could affect the present or future safety of this system: ☐ yes ☒ no

If yes, explain: _____

Are there missing line markers anywhere in the system?: ☐ yes ☒ no

If yes, give location: _____

If yes to any above question, to whom was it reported: _____

Comments: _____

Performed By: P. Stanish

Date: 2-5-16

OHIO RURAL NATURAL GAS LINE PATROL REPORT (\$192.721)

System Name: SUGAR BUSH

System No: 51-002

Area covered: From: 9221 SUGAR BUSH EAST ALONG STREET

To: 9220 SUGAR BUSH ALONG LINE ON

System type: ☒ Distribution ☐ Transmission

Class location: ☐ 1 ☐ 2 ☒ 3 ☐ 4

Patrol frequency: ☒ 4 Times/yr ☒ 2 Times/yr ☐ Annual

☐ 5 years ☐ Other

Method used to patrol: ☐ Truck ☒ Walk ☐ Other:

Were any leaks found: ☐ yes ☒ no

If yes, gas leak and repair report no:

Was there any construction along or near the pipeline system: ☐ yes ☒ no

If yes, give reference to nearest line marker or address: 65' NEAREST LINE MARKER

ADDRESS 9230 SUGAR BUSH DR

MENTOR OHIO 44060 PIN# 16B060B000100

Were there any unusual conditions found at any of the following places:

☒ None Found

☐ Highway

☐ Steams/Rivers

☒ Foreign Pipeline

☐ Railroad

☐ Buildings

Other: ORwell Natural Gas Line

Are there any factors that could affect the present or future safety of this system: ☐ yes ☒ no

If yes, explain:

Are there missing line markers anywhere in the system?: ☐ yes ☒ no

If yes, give location:

If yes to any above question, to whom was it reported:

Comments:

Line markers location AT STATION +

Performed By:

[Signature]

Date: 2-5-16

Sugar Bush

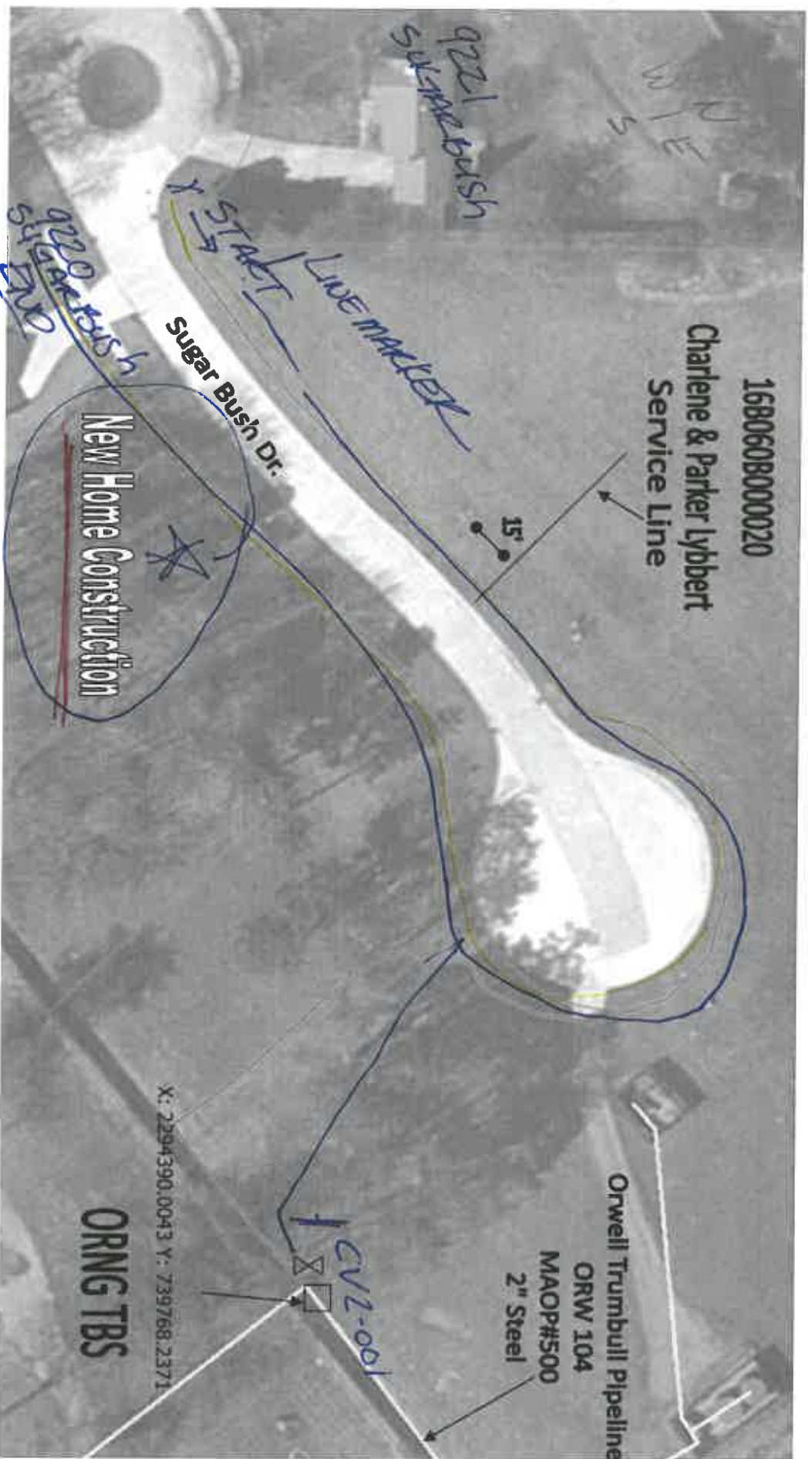
Flame Ionization Survey
Available Opening Survey
Vegetation Survey

Leak Survey Map
Line Patrol

System: ORNG S1-002
Leak record # _____
Date: 02/05/2016 Time: _____
Performed by: Dave Stanish

Remarks:

System: ORNGS1-002
MAOP: 60 System Length: 850'
4" SDR11



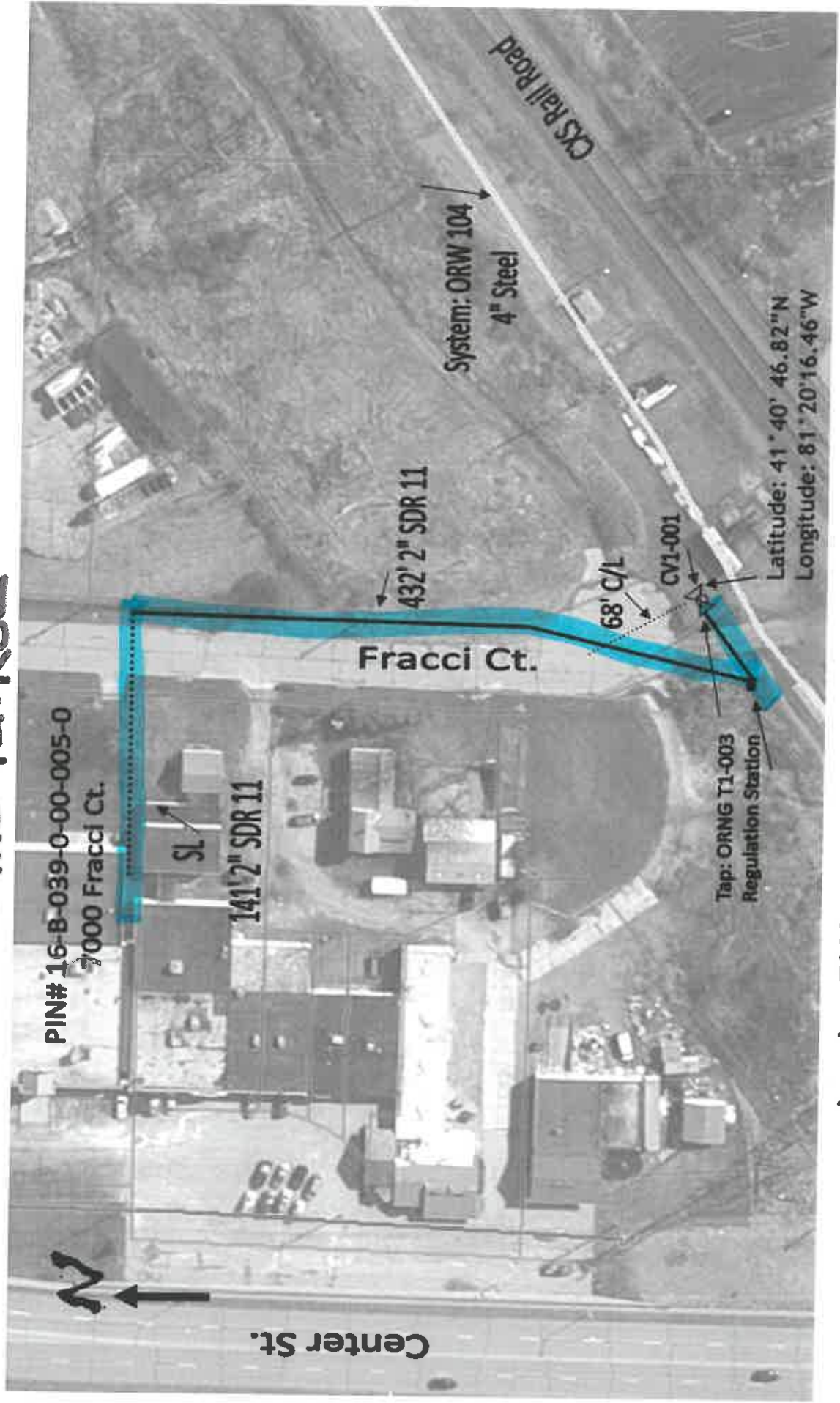
Location: Sugar Bush Dr. City: Mentor County: Lake, Ohio 44060

Leak Survey Map

Flame Ionization Survey
Available Opening Survey
Vegetation Survey

System: Fracci
Leak record # _____
Date: 2/5/16 Time: _____
Performed by: _____

LINE PATROL



Location: 7000 Fracci Ct. Mentor Lake County Ohio

OHIO RURAL NATURAL GAS LINE PATROL REPORT (§192.721)

System Name: FRACCI CT

System No: 51-001

Area covered:

From: END OF FRACCI CT. PIN# 16B 039000450

To: PIN# 16B-039-0000050 7000 FRACCI CT

System type:

☐ Distribution

☐ Transmission

Class location:

☐ 1

☐ 2

☒ 3

☐ 4

Patrol frequency:

☒ 4 Times/yr

☐ 2 Times/yr

☐ Annual

☐ 5 years

☐ Other

Method used to patrol:

☐ Truck

☒ Walk

☐ Other:

Were any leaks found:

☐ yes

☒ no

If yes, gas leak and repair report no: _____

Was there any construction along or near the pipeline system:

☐ yes

☒ no

If yes, give reference to nearest line marker or address: _____

Were there any unusual conditions found at any of the following places:

☐ None Found

☐ Steams/Rivers

☒ Railroad

☐ Highway

☒ Foreign Pipeline

☐ Buildings

Other: _____

Are there any factors that could affect the present or future safety of this system:

☐ yes

☒ no

If yes, explain: _____

Are there missing line markers anywhere in the system?:

☐ yes

☒ no

If yes, give location: _____

If yes to any above question, to whom was it reported: _____

Comments: _____

NEED STICKERS ON Line
MARKERS

STICKERS ORDERED ✓ done

Performed By: AKH

Date: 2-5-16

FRACCI CT

OHIO RURAL NATURAL GAS LINE PATROL REPORT (§192.721)

System Name: MUZIL 13164 Leroy Center System No: T1-003
Area covered: From: 145' From c/L of INDIAN Point W
To: 33 1/2' S to T1-003 90' ALONG S/L +
200' ALONG ORW 104
System type: ☐ Distribution ☐ Transmission
Class location: ☐ 1 ☐ 2 ☒ 3 ☐ 4
Patrol frequency: ☒ 4 Times/yr ☐ 2 Times/yr ☐ Annual
☐ 5 years ☐ Other _____
Method used to patrol: ☐ Truck ☒ Walk ☐ Other: _____
Were any leaks found: ☐ yes ☒ no
If yes, gas leak and repair report no: _____
Was there any construction along or near the pipeline system: ☐ yes ☒ no
If yes, give reference to nearest line marker or address: _____

Were there any unusual conditions found at any of the following places:

☒ None Found ☐ Steams/Rivers ☐ Railroad
☐ Highway ☐ Foreign Pipeline ☐ Buildings

Other: _____

Are there any factors that could affect the present or future safety of this system: ☐ yes ☒ no

If yes, explain: _____

Are there missing line markers anywhere in the system?: ☐ yes ☒ no

If yes, give location: _____

If yes to any above question, to whom was it reported: _____

Comments: LOT LOWE
41.686848, -81.147771

Performed By: [Signature]

Date: 7-4-16

Leroy Center

Manufactured by Duke Energy

DEPARTMENT OF TRANSPORTATION
Pipeline and Hazardous Materials Safety Administration
OFFICE OF PIPELINE SAFETY



PHMSA

U.S. Department of Transportation
Pipeline and Hazardous Materials
Safety Administration

PIPELINE SAFETY REGULATIONS

PART 192

TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE:
MINIMUM FEDERAL SAFETY STANDARDS
(Current through Amendment 118, as of September 2013)

PIPELINE SAFETY DIVISION (PHP-70)
PO BOX 25082
OKLAHOMA CITY, OK 73125-5050

(405) 954-7219

Fax (405) 954-0206

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in

Case No(s). 16-1578-GA-COI

Summary: Testimony of Darryl Knight on behalf of Ohio Rural Natural Gas Co-op (Part 3-Exhibits Continued) electronically filed by Mr. Richard R Parsons on behalf of Ohio Rural Natural Gas Co-op