## RECEIVED

#### JUL 1 5 2019

PUBLIC SERVICE COMMISSION

### COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

CITY OF AUGUSTA- ALLEGED	)	
FAILURE TO COMPLY WITH KRS	)	CASE NO.
278.495 AND 49 C.F.R. PARTS 191 AND 192	)	2019-00188

#### RESPONSE

Comes now the City of Augusta, and hereby files its Written Response to the Alleged Violations set out in numerical paragraphs 1 through 11 of the Commission Order dated June 27<sup>th</sup>, 2019, establishing this investigatory proceeding. The City of Augusta reserves the right to amend and/or supplement this Response before or at the hearing on August 20<sup>th</sup>, 2019, if needed.

#### Response to #1

At the time of the periodic inspection of the Commission Staff (Staff) of the municipal gas system (gas system) of the City of Augusta (Augusta) on September 5-7, 2018, Augusta admits that it did not have detailed records regarding the installation and pressure test of new service line. Augusta hereby attaches a copy of such records to this Response as Exhibit 1.a.

At the time of the periodic inspection of Staff of the gas system of Augusta on September 5-7, 2018, Augusta admits that it did not have detailed records concerning installation of the excess flow valves (EFV). Augusta hereby attaches a copy of such records to this Response as Exhibit 1.b.

At the time of the periodic inspection of the Staff of the gas system of Augusta on September 5-7, 2018, Augusta admits that it did not have detailed records concerning installation of any leaks and repairs of pipe. Augusta has attached a copy of such records since the inspection to this Response as Exhibit 1.c.

At the time of the periodic inspection of the Staff of the gas system of Augusta on September 5-7, 2018, Augusta admits that it did not have detailed records concerning corrosion inspections. Augusta has attached a copy of such records since the inspection to this Response as Exhibit 1.d.

#### Response to #2

Per regulations, staff training was conducted on March 4<sup>th</sup>, 2019 wherein appropriate personnel were trained to assure that they are familiar with emergency training procedures including those emergency procedures that have been updated in the manual containing the emergency plan. Evidence of such training is attached hereto as Exhibit 2.

#### Response to #3

Augusta admits that a leakage survey in the business district should have been conducted in 2017 and was not conducted until March 7<sup>th</sup> and March 8<sup>th</sup> of 2018. (Augusta contracted with Utility Safety & Design Inc. for such survey and incurred \$2634.00 in expenses related to such survey.) Please find a copy of the 2018 leakage survey attached as Exhibit 3.a. and a copy of the invoice for same attached as Exhibit 3.b. Utility Safety & Design Inc. conducted the 2019 leakage survey in the business district on April 16th and 17th 2019, at a cost of \$3567.80, and any needed repairs have been completed. Please find a copy of the 2019 leakage survey report, a copy of the repairs that were made as a result of such survey, and a copy of the invoice for the repairs, attached as Exhibit 3.c. (Augusta has not yet received the invoice for the 2019 leakage survey.)

#### Response to #4

Augusta admits it did not conduct an inspection of all critical valves in 2016. The inspection records of all critical valves of the January 10<sup>th</sup> and January 12<sup>th,</sup> 2019 critical valve inspection are attached hereto as Exhibit 4.

#### Response to #5

Augusta admits it did not timely address the temporary clamp repair made on Wagel Road on March 27<sup>th</sup>, 2018, but such permanent repair was made on October 24<sup>th</sup>, 2018. A record (work order form) and photographs are attached hereto as Exhibit 5.

#### Response to #6

Augusta admits that at the time of the staff inspection it did not have an individual who had been re-qualified or qualified to conduct the critical test of pipe-to-soil readings. All Augusta gas personnel are now re-qualified or qualified to conduct pipe-to-soil inspections. Records of such operator qualifications are attached hereto as Exhibit 6.

#### Response to #7

Since Staff's inspection of Augusta's gas system, Augusta has provided training on indicators of probable drug use to supervisory personnel responsible for determining whether an employee must be drug tested based on a reasonable suspicion as follows: Please see attached Exhibit 7 as evidence of such training.

#### Response to #8

Augusta admits it did not timely submit its annual report on DOT Form PHMSA F-7100.1.1. (Such annual report was submitted April 9<sup>th</sup>, 2018.) Augusta's 2019 annual report on DOT Form PHMSA F-7100.1.1. was submitted on March 1<sup>st</sup>, 2019. Please see attached Exhibit 8.

#### Response to #9

Augusta's operation and maintenance plan has been updated since Staff's inspection and should now meet all of the requirements of 49 CFR §192.605. Please see attached Exhibit 9.

### Response to #10

Augusta's emergency plan has been updated since Staff's inspection and should now meet all of the requirements of 49 CFR §192.615. Please see attached Exhibit 10.

#### Response to #11

Since Staff's inspection, Augusta contracted with Utility Safety and Design, Inc. at a cost of \$5298.74 to make modifications to all four of its pressure regulator stations which are now all configured to allow for proper testing of each regulator's lock-up mechanism. Please see attached Exhibit 11, which consists of a Letter of Proposal for such modifications, and the post-repair inspection of the pressure regulator stations. (Augusta has not yet received the actual invoice for these repairs.)

Wherefore, the City of Augusta respectfully submits this Written Response as directed by the Commission's June 27<sup>th</sup>. 2019 Order.

Respectfully Submitted,

Cynthia C. homps

Cynthia C. Thompson Legal Counsel, City of Augusta 202 E. Riverside Drive Augusta, Kentucky 41002 <u>cethompsonatty@yahoo.com</u> Tel.: (606) 756-2663 Fax.: (606) 756-2664

### CERTIFICATE OF SERVICE

This is to certify that on this the 12<sup>th</sup> of July, 2019, an original and ten copies were mailed to the Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602-0615.

Cynthia C. Thompson Legal Counsel, City of Augusta

## **EXHIBIT 1.a**

	Augusta Ga	as Service Work Ord	ler	Work Type: Repair
Location/Address: Wagel Road		Facil	ity Classification:	istribution Main
Leak Information				
Date Discovered: 09/05/2018	How Discovered:		Reported To:	
Leak Grade: CGI Used?	Percentage of 0	Gas(%Gas in Air):	Graded By:	
Description of Leak: A permanent r	epair was done to replace	e a temporary repair.		
Cause of Leak:			5	7
	Incorrect Operations	Other Outside Force	Þ	Dig In
External Internal	Ineffective Procedures	Fire/Explosion Info Vandalism Vehicle Other	ormation of Excavator	Bracken County Water District. Temporary repaired in 2014. Permanent repair completed. October 24, 2018+
Natural Forces	Equipment Failure	Material and Welds	Was 811 Call	ed:
Earthquake Earth/Rock Movement Flood Frost Heave Landslide Lightning Tornado Washout Other	Excess Flow Valve Filter Flow/Pressure Controller Meter Casing Regulator/Relief Valve Threads Valve Other	Flange Mechanical Fitting Pipe Plastic Fusion Coupling Plastic Dresser Plastic to Steel Transition Screw Fitting Tap Tee Workmanship Defect Other	Explain Other	
Pipe Information				
Pipe Size: Pipe Material:	Plastic PE 2406	Coating:	Pipe Conditi	on: <sup>Excellent</sup> EFV No
Corrosion Information		V	r	
Cathodic Protection:	Pipe to Soil Readi	ng: Wall Thic	kness:	Coupons Taken:
External Condition:	Pit Depth:	Internal Conditi	on: Smooth	Pit Depth:
Anodes Installed: Anode ty	pe: Repair C	oating 1:	Repair Coa	ating 2:
Depth of Cover: Feet	nches Soil Condit	ion: Mois	iture:	Soil Packing:
Densis Information				
Repair Method: Replaced	Date Repaired:	10/24/2018 Re	paired By: Darrin	Blevins
Description of Repair: Electrofusio	on fittings and new plastic	c pipe		
				··· · ··· · ··· · · ···
Test Information	Droccuro			[
Length of Pipe 3	Test Type:	Test M	edium: Air	X-Ray(STEEL):
Test Start Date/Time: 10/16/2018	Pressure at Start: 45	5 Pressure Lo	oss: No	Operating Pressure:17
Test End Date/Time: 10/16/18	Pressure at End: 4	5 Ibs Amount of	Loss 0	
Reason for Loss: N/A		Corrections Made		
Other				
Other Information:	· · · · · · · · · · · · · · · · · · ·			
Cleared By: Darring Blevin	5	Date	e: 10/24	/2018

# **EXHIBIT 1.b**

	Augusta Ga	s Service Work	Order	Work Type: New
Location/Address: Crouch. KY 19			Facility Classification	n: Meter Set
Leak Information			7	
Date Discovered:N/A	How Discovered:		Reported To:	
Leak Grade: CGI Used?	Percentage of G	Gas(%Gas in Air):	Graded By:	
Description of Leak:				
Cause of Leak:	ncorrect Operations	Other Outside Force		
Atmospheric External Internal	Human Error Ineffective Procedures	External Loading Fire/Explosion Vandalism Vehicle Other	Information of Excavat	or
Natural Forces	Equipment Failure	Material and Welds	Was 811	Called:
Earthquake Earth/Rock Movement Flood Frost Heave Landslide Lightning Tornado Washout Other	Excess Flow Valve Filter Flow/Pressure Controller Meter Casing Regulator/Relief Valve Threads Valve Other	Flange Mechanical Fitting Pipe Plastic Fusion Coupli Plastic Dresser Plastic to Steel Trans Screw Fitting Tap Tee Workmanship Defect Other	Explain Other	
Pipe Information				
Pipe Size: Pipe Material:	9	Coating:	Pipe Cone	dition: EFV
Corrosion Information		└─── <sup>─</sup> ∨	U <b>T</b> U - 1	
External Condition:	Pit Depth:	Internal Co	ondition:	Pit Depth:
Anodes Installed: Anode typ	e: Repair Co	pating 1:	Repair	Coating 2:
Depth of Cover: Feet In	sches Soil Condit	ion:	Moisture:	Soil Packing:
<b>Repair Information</b>				
Repair Method:	Date Repaired:		Repaired By:	
Description of Repair:				
Test Information				
Length of Pipe	Test Type:	Т	est Medium:	X-Ray(STEEL):
Test Start Date/Time:	Pressure at Start:	lbs Press	ure Loss:	Operating Pressure:
Test End Date/Time:	Pressure at End:	Ibs Amou	unt of Loss	bs
Reason for Loss:		Corrections	Made:	
Other				
Other Information: New Customer.	Unable to install EFV bec	cause tap was into ex	tisting service line.	····
Cleared By:			Date: 10	/29/18

# **EXHIBIT 1.c**

Augusta Gas Service Work Order Work Type: Repair
Location/Address: Habermehl, KY 8 Facility Classification:
Leak Information
Date Discovered: 12/26/18 How Discovered: Odorant Complaint Reported To: City Hall
Leak Grade:       CGI Used?       Yes       Percentage of Gas(%Gas in Air):       Graded By:
Description of Leak: Service line with pin hole leak
Cause of Leak:
Corrosion       Incorrect Operations       Other Outside Porce       Dig In         Atmospheric       Human Error       External       External       Ineffective Procedures       External Loading         Internal       Internal       Other Outside Porce       Information of Excavator         Other       Other       Other
Natural Forces Equipment Failure Material and Welds Was 811 Called:
Earthquake       Excess Flow Valve       Flange         Earth/Rock Movement       Filter       Mechanical Fitting       Explain Other         Flood       Flow/Pressure Controller       Pipe       Pipe         Frost Heave       Meter Casing       Plastic Fusion Coupling       Plastic Dresser         Landslide       Regulator/Relief Valve       Plastic Dresser       Plastic to Steel Transition         Tornado       Valve       Screw Fitting       Tap Tee         Washout       Other       Other       Other
Pipe Information
Pipe Size: Pipe Material: Steel Welded Coating: Bare Pipe Condition: Fair EFV No
Cathodic Protection: Pipe to Soil Reading: Wall Thickness: Coupons Taken:
External Condition: Pit Depth: IN Internal Condition: Pit Depth: IN
Anodes Installed:     Anode type:     Repair Coating 1:     Repair Coating 2:
Depth of Cover: Feet Inches Soil Condition: Moisture: Soil Packing:
Repair Information
Repair Method:     Temporary     Date Repaired:     12/26/18     Repaired By:     Darrin Blevins
Description of Repair: Temporary band clamp
Test Information
Length of Pipe Test Type: Test Medium: X-Ray(STEEL):
Test Start Date/Time: Pressure at Start: Pressure Loss: Operating Pressure 1 lbs
Test End Date/Time: Pressure at End: Amount of Loss
Reason for Loss: Corrections Made:
Other
Other Information: To make permanent repair service line needs to be replaced.
Cleared By: Date: 12/26/18

## **EXHIBIT 1.d**

### PATROLLING OF DISTRIBUTION SYSTEM

2-28-2-28-19 Ēzdec Period Covered: Began . Areas Covered: Map References Mt Leakage Indications Discovered (describe locations and indications, such as condition of vegetation) \_\_\_\_\_ Leakage Indications Reported to: MA Construction Activity Along Areas: Describe any unusual conditions at , highway and railroad crossings: Other factors noted which could affect present or future safety or Follow-Up (repairs, maintenance or pests resulting from this inspection):  $\mathcal{N}/\mathcal{N}$ COMMENTS: No. of persons in patrol party:

Signature of person in charge of patrol party:

Andley

### PATROLLING OF DISTRIBUTION SYSTEM

2-28-19 2-28-Period Covered: Began . Endea Areas Covered: Map References: Leakage Indications Discovered (describe locations and indications. such as condition of vegetation) \_\_\_\_ Leakage Indications Reported to: Construction Activity Along Areas: Describe any unusual conditions at highway and railroad crossings: Now Other factors noted which could affect present or future safety or operation of gas system: \_ In son 1 Follow-Up (repairs, maintenance or tests resulting from this inspection): . . COMMENTS: Alote No. of persons in patrol party: Signature of person in charge of patrol party: Dace

BOOK 3. PATROLLING OF DISTRIBUTION SYSTEM. Began . 2-27-19 \_ Ended 2-2719 Perlod Covered: Areas covered: mast all East socard wast and East Socard MAIN ST FRANKFORF St. Map References: Leakage Indications Discovered (describe locations and indications. such as condition of vegetation) IA INII Leakage Indications Reported to: Construction Activity Along Areas: \_ UCI Describe any unusual conditions at highway and railroad crossings: Other factors noted which could affect present or future safety or operation of gas system: INGIA Follow-Up (repairs, maintenance or tests resulting from this inspection): . . COMMENTS: 1Agga-No. of persons in patrol party: Signature of person in charge of patrol party: Dace: 17.19

### PATROLLING OF DISTRIBUTION SYSTEM.

Ended 2-27. Period Covered: Began . Areas Covered: Map References: Leakage Indications Discovered (describe tocations and indications, Leakage Indications Leakage Indications such as condition of vegetation) Mrite OFF Due TO SAS hur TUSIDE RESIDENCE LOCKed MCITY Leakage Indications Reported to: Construction Activity Along Areas: Describe any unusual conditions at highway and railroad crossings: Other factors noted which could affect present or future safety or operation of gas system: Follow-Up (repairs, mainpegance or tests resulting from this inspection): . . COMMENTS: No. of persons in patrol party:

Signature of person in charge of patrol party:

haple

# **EXHIBIT 2**

## **City of Augusta**

## **Natural Gas System**

## **Employee Training on Emergency Procedures**

March 4, 2019

Print Name	Signature
DAVIAL BLOUIS	Dil.
Troy Archibt /2	Mah
Deride Back	

49 CFR 192.615(b)(2) Train the appropriate operating personnel to assure that they are knowledgeable of the emergency procedures and verify that the training is effective.

# **EXHIBIT 3.a**



## Leakage Survey Summary

City/Company:	City of Augusta/Kentucky				
Technician(s):	Daniel Jefferson	, USDI & Darrin B	Blevins, City of	Augusta	
Beginning Date:	Wednesday, Ma	rch 07, 2018			
Ending Date:	Thursday, March	n 08, 2018			
Total Days of Inspe	ction:	2	]		
Main Inspection Da	ys:	1	]		
Service Line Inspect	tion Days:	1			
<u>Mains</u>					
otal Number of Le	aks Recorded:	3			
Below Ground:		2	]		
Above Ground:		1			
<u>Services</u>					
otal Number of Lea	aks Recorded:	3			
Below Ground:		1	]		
Above Ground:		2			
Notes:					

1. Above ground meter set leaks will not be reportable on Gas Distribution Annual Report Form (PHMSA F7100.0-1) if they can be elimated by lubrication, adjustment, or tightening.

2. Customer-owned piping or piping from the outlet side of the meter to the building wall was surveyed.

### **Description of System Surveyed:**

The entire system was surveyed, including the Business District, residential sections, and rural sections. The survey was conducted using a Heath Consultants Remote Methane Leak Detector, Southern Cross Flame lonization unit, and a Sensit Gold combustible gas indicator. Leak No.4 at 101 Frankfort St. was repaired by City of Augusta personnel during the second day of the survey (03-08-2018).



## Leakage Survey - Leaks Found

		Steel Line Digital States				32,45	行动和小学生	N		
City/Compa	any:	City of Augusta								
Technician(	s):	Daniel Jefferson	, USDI & Da	irrin Bl	evins, Cit	y of	Augusta			
Date:		March 7, 2018			She	et:	1	of	2	
Daily Foota	ge:	50	harden an an an Anna Anna Anna Anna Anna Ann		%					
.eak Equipr	nent SN:	RMLD:81013520	006		Flame-pa	ck:4	7825 / CGI:	G2 30674		
<u>No.</u>		Address	Pre	ssure	Class		Cover	Locat	ion & Remarks	
1	628 2nd S	treet	I		3			Outlet of bloo meter.	k valve on service	
									1	
2	104 Brack	en Street	I		3		15	Inlet of block	valve on service meter.	
	6					-	1			
		· · · · · · · · · · · · · · · · · · ·			100					
3	534 2nd Si	reet	I		2	•	s 💌	Underground	at service line tap. Re	45
					Rec.			(etester	1-18-19	
					- 1194	-				
4	101 Frank	fort Street	I	Resol	2	•	5	(repaired on (	on service line. 03/08/2018	
					102					
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							inters.			-
							Series			
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Leakage Survey - Leaks Found

City/Con	npany:	City o	of Augusta						a)
echnicia	an(s):	Danie	l Jefferson, USD	l & Da	rrin Bl	evins, Cit	y o	of Augusta	
)ate:		Marc	h 8, 2018	- Art-Piloz	-075576-07760	She	et:	2	of 2
aily Foo	otage:	50				%	igan Incli		
eak Equi	ipment SN:	RMLD	:8101352006			Flame-pa	ick:	47825 / CGI:	G2 30674
<u>No.</u>		Add	ress	Pres	ssure	Class	No. 1	<u>Cover</u>	Location & Remarks
1	220 Main	Street		I		2	6	s 💌	Underground valve on the 2" main.
						L.			HAP UD 215-17 4 AD Liken, IND DO
					-	1	•	v	and toulor
2	19AA Reg	ulator S	tation	I		3	•		2" Relief valve leaking from
	Bepnie	an	7-25-18			100		1	adjustment cap.
							-		
						100	•		
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Grade Definition	Examples	Action Criteria
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. See §192.703(c).	<ol> <li>Any leak which, in the judgment of operating personnel at the scene, is regarded as an immediate hazard.</li> <li>Escaping gas that has ignited.</li> <li>Any indication of gas which has migrated into or under a building, or into a tunnel.</li> <li>Any reading at the outside wall of a building, or where gas would likely migrate to an outside wall of a building.</li> <li>Any reading of 80% LEL, or greater, in a confined space.</li> <li>Any reading of 80% LEL, or greater in small substructures (other than gas associated substructures) from which gas would likely migrate to the outside wall of a building.</li> <li>Any leak that can be seen, heard, or felt, and which is in a location that may endanger the general public or property.</li> </ol>	Requires prompt action* to protect life and property, and continuous action until the conditions are no longer hazardous * The prompt action in some instances may require one or more of the following: a. Implementation of emergency plan (§192.615). b. Evacuating premises. c. Blocking off an area. d. Rerouting traffic. e. Eliminating sources of ignition. f. Venting the area by removing manhole covers, barholing, installing vent holes, or other means. g. Stopping the flow of gas by closing valves or other means. h. Notifying police and fire departments.

.6

LEAK CLASSIFICATION AND ACTION O	CRITERIA – GRADE 2	
Grade Definition Exa	kamples	Action Criteria
A leak that is recognized as being non-hazardous at the time of detection, but justifies scheduled repair based on probable future hazard. B. 1 1. A in a Gra 2. A a w mig 3. A (oth wool 4. A con 5. A SM not 6. A sub 7. A per just	<ul> <li>Leaks Requiring Action Ahead of Ground Freezing or ther Adverse Changes in Venting Conditions. my leak which, under frozen or other adverse soil anditions, would likely migrate to the outside wall of a aliding.</li> <li>Leaks Requiring Action Within Six Months Any reading of 40% LEL, or greater, under a sidewalk a wall-to-wall paved area that does not qualify as a rade 1 leak.</li> <li>Any reading of 100% LEL, or greater, under a street in wall-to-wall paved area that has significant gas igration and does not qualify as a Grade 1 leak.</li> <li>Any reading less than 80% LEL in small substructures ther than gas associated substructures) from which gas ould likely migrate creating a probable future hazard. Any reading between 20% LEL and 80% LEL in a anfined space.</li> <li>Any reading on a pipeline operating at 30 percent MYS, or greater, in a class 3 or 4 location, which does ot qualify as a Grade 1 leak.</li> <li>Any reading of 80% LEL, or greater, in gas associated abstructures:</li> <li>Any leak which, in the judgment of operating ersonnel at the scene, is of sufficient magnitude to stify scheduled repair.</li> </ul>	Leaks should be repaired or cleared within one calendar year, but no later than 15 months from the date the leak was reported. In determining the repair priority, criteria such as the following should be considered. a. Amount and migration of gas. b. Proximity of gas to buildings and subsurface structures. c. Extent of pavement. d. Soil type, and soil conditions, such as frost cap, moisture and natural venting. Grade 2 leaks should be reevaluated at least once every six months until cleared. The frequency of reevaluation should be determined by the location and magnitude of the leakage condition.

LEAK CLASSIFICATION AND ACTION CRITERIA – GRADE 3					
Grade Definition	Examples	Action Criteria			
A leak that is nonhazardous at the time of detection and can be reasonably expected to remain non- hazardous.	Leaks Requiring Reevaluation at Periodic Intervals 1. Any reading of less than 80% LEL in small gas associated substructures. 2. Any reading under a street in areas without wall-to- wall paving where it is unlikely the gas could migrate to the outside wall of a building. 3. Any reading of less than 20% LEL in a confined space.	These leaks should be reevaluated during the next scheduled survey, or within 15 months of the date reported, whichever occurs first, until the leak is regraded or no longer results in a reading.			

# **EXHIBIT 3.b**





PO Box 276 1927 Miller Drive Olney, IL 62450 6183925502

INVOICE	
	Number:
	Page:
14. J. March	Date:

"

IN20183141 1 7/31/2018

Sold To:	CITY OF AUGUSTA PO BOX 85 AUGUSTA, KY 41002	

Attn: GAS DEPARTMENT

Reference - P.O. #		Customer No. Salesperson		son	Ship Via			Terms Code		
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LABOR	Regulator In	spection/Documentation	,	10.0	0 HOUR		00000		1,250.00	
1. C. 14	INSPECTIO SubTotal	N							1,250.00	
2018-AUGUSTKY Total	204 - 03	operate and an of		line i r	1990-1990 - 19 19	aran oʻsh e			2,634.08	
6	Due Date 8/30/2018	Amount Due 2,634.08				n An A				
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	Leak	(301.52			-	-				
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Remit To: Jtility Safety and I PO Box 276 1927 Miller Drive Dipey 62450	Design Inc.	т По <sub>11</sub> 22 ст. 505, 85 с (21) с		- E -	S	btotal before t Total t Total am Amount	axes axes ount due	5	2,634.08 0.00 2,634.08 2,634.08	

Thank you for the opportunity to serve you.

# EXHIBIT 3.c

### Leakage Survey Summary

City/Company:	Augusta, KY / Ci	Augusta, KY / City of Augusta			
Technician(s):	Daniel Jeffersor	Daniel Jefferson			
Beginning Date:	Tuesday, April 1	Tuesday, April 16, 2019			
Ending Date:	Thursday, April				
Total Days of Inspection:		2.5	]		
Main Inspection Days:		1.25			
Service Line Inspection Days:		1.25	]		
<u>Mains</u>					
Total Number of Le	aks Recorded:	5	]		
Below Ground:		5	]		
Above Ground:		0	]		
<u>Services</u>					
Total Number of Le	aks Recorded:	2	]		
Below Ground:		1	]		
Above Ground:		1	]		
Notes:					

1. Above ground meter set leaks will not be reportable on Gas Distribution Annual Report Form (PHMSA F7100.0-1) if they can be elimated by lubrication, adjustment, or tightening.

2. Customer-owned piping or piping from the outlet side of the meter to the building wall was surveyed.

### **Description of System Surveyed:**

04/16/2019 - Business district survey started. 04/17/2019 - Business district survey Completed, and also surveyed approximately .5 mile of 4" main between E Augusta Chatam Rd and regulator station on Heather Renee French BLVE (HWY 8). Also surveyed approximately .9 Mile of the "industrial park" line from Gillespie Ln to a point 500' north of the Dutch Ridge Rd Crossing. 04/18/2019 - Continued the "industrial park" line survey from point 500' north of the Dutch Ridge Rd Crossing along the pipeline route approximately 2 miles to the instersection of HWY 9 and HWY 19. Also surveyed the 4" steel main and services on Valley View Dr and Valley High Dr.





## Leakage Survey - Leaks Found

					244			Read Barris Care
City/Comp	pany:	Augusta, KY / City of	Augusta	3	10.00			
Techniciar	n(s):	Daniel Jefferson						
Date: 04/16/201		04/16/2019 - 04/18/	94/16/2019 - 04/18/2019					of
Daily Foot	tage:				3355			
Leak Equip	pment SN:	8101352006		Trace State of				
<u>No.</u>		Address	Pres	sure		<u>Class</u>	Cover	Location & Remarks
1	207 Park St		<b>I</b>		2		S 💌	Underground leak on 2" Main. Greatest barhole reading - 92% gas. Line was excavated to reveal corrosion in the area of the service line taps. Found on 04/16/2019
2	205 Park St		I		2		s 💌	Underground leak on 2" Main. Greatest barhole reading - 87% gas. Found on 04/16/2019
3	205 Park St		I		2	274	S 💌	Underground leak on service line to abandon building. Greatest barhole reading - 60% gas. Found on 04/16/2019
4	525 E 3rd St.	Unit #3	I		3	•	S 💌	Regulator vent leaking. Found on 04/16/2019
5	504 E 4th St		I		2		5 💌	Underground leak likely on main at service tap. Greatest barhole reading - 42% Gas. Found on 04/16/2019
6	SW corner of	Élizabeth St @ 2nd St	I		2		S <u> </u>	Underground leak on main. Greatest barhole reading - 37% Gas. Found on 04/17/2019
7	NW corner of	f Elizabeth St @ 2nd St	I		2	•	s 💌	Underground leak on main. Greatest barhole reading - %40 Gas. Found on 04/17/2019
						TGS PAGE		



PO Box 276 1927 Miller Drive Olney, IL 62450 6183925502 INVOICE

Number: Page: Date: IN20191947 1 4/30/2019

Sold To: CITY OF AUGUSTA PO BOX 85 AUGUSTA, KY 41002

Attn: GAS DEPARTMENT

Reference - P.O. #		Customer No.	Sale	sperson Ship		hip Via		Terms Code	
		AUGUSTA	DH					NET	30
Item No.	Descriptio	on/Comments		Quan	tity	UOM	Unit Pr	rice	Amount
EQUIPMENT	MINI-EXCA	VATOR		24.00	000	HOUR	50.000	000	1,200.00
EQUIPMENT	DIRECTIONAL BORING MACHINE			13.00	000	HOUR	150.000	000	1,950.00
EQUIPMENT	D-5 MUELL	ER TAPPING MACHIN	E	2.00	000	HOUR	180.000	000	360.00
LABOR	Install New Park Stre	Main & Services et		15	8.50	HOUR	97.000	000	15,374.50
MATERIAL	TRACER W	IRE COOPER CLAD	#12 ŀ	1,500.00	000	EACH	0.108	357	162.54
MATERIAL	PE PIPE	1/2" CTS ROLL 50	0 FT	1,000.00	000	EACH	0.262	250	262.25
MATERIAL	Mileage			872.00	000	EACH	0.780	000	680.16
MATERIAL	PE PIPE 2	" IPS ROLL 500 FT	SDR	500.00	000	EACH	1.000	000	500.00
MATERIAL	NIPPLE 3/	4X2 BLK		4.00	000	EACH	1.056	945	4.23
MATERIAL	NIPPLE 1	X 2 BLK		1.00	000	EACH	1.387	245	1.39
MATERIAL	NIPPLE 1	X 2 BLK		1.00	000	EACH	1.387	245	1.39
MATERIAL	BELL REDU	JCER 1-1/4" X 1" BLH	<b>‹</b>	7.00	000	EACH	1.650	000	11.55
MATERIAL	NIPPLE 3/	4 X 4-1/2 BLK		2.00	000	EACH	1.731	337	3.46
MATERIAL	NIPPLE 1	X 4-1/2 BLK		1.00	000	EACH	2.612	500	2.61
MATERIAL	ELL 1" TH	READED BLK		2.00	000	EACH	4.600	000	9.20
MATERIAL	DIRECT BU	YLUG YLW #14-#	10 9(	4.00	000	EACH	5.075	000	20.30

Continued on next page ...



PO Box 276 1927 Miller Drive Olney, IL 62450 6183925502

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Number: Page: Date:

IN20191947 2 4/30/2019

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Sold CITY OF AUGUSTA PO BOX 85 AUGUSTA, KY 41002 To:

Attn: GAS DEPARTMENT

Reference - P.O. #		Customer No.	Sale	sperson Shi		hip Via			Terms Code	
		AUGUSTA	DH				N	NET	30	
Item No.	Descriptio	on/Comments		Quan	tity	UOM	M Unit Price		Amount	
MATERIAL	ELL 1"X3	/4" BLK THREADED	ELL	1.00	0000	EACH	5.1875	500	5.19	
MATERIAL	NIPPLE 1	X 10-1/2 BLK		1.00	0000	EACH	6.7625	500	6.76	
MATERIAL	BELL REDU	ICER 1-1/2 X 1 THR	EADE	1.00	000	EACH	8.5326	692	8.53	
MATERIAL	EF COUPLI	NG 2" IPS PE3408 B	LACK	6.00	000	EACH	9.9652	295	59.79	
MATERIAL	NON-INS LO	OCKSTOP 3/4" GAS	BALL I	14.00	000	EACH	18.3625	500	257.08	
MATERIAL	TRANSITIO	N 2" X 2" IPS WELD S	DR11	2.00	000	EACH	32.5450	000	65.09	
MATERIAL	RISER 3/4	* NPT X 1/2" CTS 30	) X 24	14.00	000	EACH	38.4515	548	538.32	
MATERIAL	EFTT PERM	MASERT 2" IPS X 1/2"	CTSI	14.00	000	EACH	58.7708	833	822.79	
MATERIAL	KEROTEST	PE BALL VALVE 2" IP	'S YEL	2.00	000	EACH	77.1562	250	154.31	
MATERIAL	LINE STOP	PER 2" LOW PRES	SURE	2.00	000	EACH	86.4875	500	172.98	
MATERIAL	VALVE BOX	(LONG 39-60" RVB 5-	245-3(	2.00	000	EACH	92.4794	463	184.96	
MATERIAL	Travel/Over	night Expense		9.00	000	EACH	200.0000	000	1,800.00	
OTHER				1.00	000	EACH	0.0000	000	0.00	
OTHER				1.00	000	EACH	0.0000	000	0.00	
OTHER				1.00	000	EACH	0.0000	000	0.00	

Continued on next page ..



PO Box 276

1927 Miller Drive Olney, IL 62450 6183925502

INVOICE

Number: Page: Date:

IN20191947 3 4/30/2019

Sold **CITY OF AUGUSTA** To: PO BOX 85

AUGUSTA, KY 41002

Attn: GAS DEPARTMENT

Reference - P.O. #		Customer No.	Sale	sperson Ship		nip Via Terr		Tern	erms Code	
		AUGUSTA	DH					NET	30	
Item No.	Descriptio	on/Comments		Quan	tity	UOM	Unit P	rice	Amount	
OTHER				1.00	000	EACH	0.000	0000	0.00	
OTHER				1.00	000	EACH	0.000	0000	0.00	
OTHER				1.00	000	EACH	0.000	0000	0.00	
	20190249 5	SubTotal							24,619.38	
2019-AUGUSTKY Total									24,619.38	
	Due Date 5/30/2019	Amount Due 24,619.38								
									-	

Remit To: Subtotal before taxes 24,619.38 Utility Safety and Design Inc. PO Box 276 0.00 **Total taxes** 24,619.38 **Total amount** 24,619.38 Amount due 1927 Miller Drive Olney 62450

Thank you for the opportunity to serve you.

## **EXHIBIT 4**

VALVE RECORD

		VALVE NO MAP NO
LOCATION:	SEMINARY AVE AT CHAPEL AVE ON EAST SIDE	
	8	
SIZE:	MAIN LINE: PRESSURE:	YEAR I/S
	TYPE: REG. INLET: HIGH:	<u>.</u>
	OUTLET: MED.:	

DATE INSPECTED	BY	GREASED	OPERATED	COMMENTS
1-10-18	IT OB	755	1.10	
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## **VALVE RECORD**

, 			VALVE NO MAP NO	
LOCATION: FOURTH	STREET AT SEMINARY AVE ON	I EAST SIDE		
	,			
SIZE:	MAIN LINE:	PRESSURE:	YEAR I/S	
	TYPE: REG. INLET:	HIGH:	12	
5	OUTLET:	MED.:		

 DATE INSPECTED
 BY
 GREASED
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 COMMENTS

 1-10-19
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 Y 2 S
 Image: Comments
 Image: Comments
				VALVE NO MAP NO
LOCATION:	FOURTH	I STREET AT SEMINARY AVE O	N SOUTH SIDE	
			a.	
SIZE:		MAIN LINE:	PRESSURE:	YEAR I/S
		TYPE: REG. INLET:_	HIGH:	
		OUTLET	MED	

DATE INSPECTED	BY	GREASED	OPERATED	COMMENTS		
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				VALVE NO MAP NO
LOCATION:	FOURTH ST	REET AT HAMILTON AVE O	N SOUTH SIDE	4
SIZE	·	MAIN LINE:	PRESSURE:	YEAR I/S
	TYI	PE: REG. INLET:	HIGH:	
		OUTLET:	MED.:	

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VALV	'E NO
MAP	NO.

LOCATION: SECOND STREET AT FRANKFORT STREET ON WEST SIDE

SIZE:\_\_\_\_\_ MAIN LINE:\_\_\_\_\_ PRESSURE:\_\_\_\_ YEAR I/S\_\_\_\_\_

TYPE:\_\_\_\_\_ REG. INLET:\_\_\_\_\_ HIGH:\_\_\_\_\_

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VALVE NO.	
MAP NO.	

LOCATION: FRANKFORT STREET AT FOURTH STREET ON WEST SIDE

SIZE:

MAIN LINE:\_\_\_\_\_ PRESSURE:\_\_\_\_\_ YEAR I/S\_\_\_\_\_

TYPE:\_\_\_\_\_ REG. INLET:\_\_\_\_\_ HIGH:\_\_\_\_\_

OUTLET:\_\_\_\_\_ MED.:\_\_\_\_

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VALVE NO	
MAP NO.	

LOCATION: BRACKEN STREET AT FOURTH STREET ON EAST SIDE

SIZE:

4

MAIN LINE:\_\_\_\_\_ PRESSURE:\_\_\_\_\_ YEAR I/S\_\_\_\_\_

TYPE:\_\_\_\_\_ REG. INLET:\_\_\_\_\_ HIGH:\_\_\_\_\_

DATE INSPECTED	BY	GREASED	OPERATED	COMMENTS
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VALVE NO.	
MAP NO.	

LOCATION: FOURTH STREET AT BRACKEN STREET ON WEST SIDE

SIZE:\_\_\_\_\_

MAIN LINE:\_\_\_\_\_ PRESSURE:\_\_\_\_\_ YEAR I/S\_\_\_\_\_

TYPE:\_\_\_\_\_ REG. INLET:\_\_\_\_\_ HIGH:\_\_\_\_\_

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VALVE NO.	
MAP NO.	-

LOCATION: FOURTH STREET ON NORTH SIDE OF TANYARD ALLEY

SIZE:

MAIN LINE:\_\_\_\_\_ PRESSURE:\_\_\_\_\_ YEAR I/S\_\_\_\_\_

TYPE:\_\_\_\_\_ REG. INLET:\_\_\_\_\_ HIGH:\_\_\_\_\_

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VALVE RECORD							
	VALVE NO MAP NO						
LOCATION: FOURTH STREE AT ELIZABETH STREET ON SOUTH SIDE, PWO-VA	LVES						
SIZE: MAIN LINE: PRESSURE:	YEAR I/S						
TYPE: REG. INLET: HIGH:							
OUTLET: MED.:							

DATE INSPECTED	BY	GREASED	OPERATED	COMMENTS
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VALVE NO.\_\_\_\_\_ MAP NO.\_\_\_\_\_

LOCATION: FOURTH STREET IN ALLEY BETWEEN LUSTIK AND WHITE LEADING TO FIFTH

 SIZE:\_\_\_\_\_
 MAIN LINE:\_\_\_\_\_
 PRESSURE:\_\_\_\_\_
 YEAR I/S\_\_\_\_\_

TYPE:\_\_\_\_\_ REG. INLET:\_\_\_\_\_ HIGH:\_\_\_\_\_

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VALVE NO	
MAP NO	

LOCATION: FOURTH STREET BETWEEN BRACKEN STREET AND ELIZABETH STREET ON SOUTH SIDE

SIZE:\_\_\_\_\_ MAIN LINE:\_\_\_\_\_ PRESSURE:\_\_\_\_\_ YEAR I/S\_\_\_\_\_

TYPE:\_\_\_\_\_ REG. INLET:\_\_\_\_\_ HIGH:\_\_\_\_\_

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VALVE NO.\_\_\_\_\_ MAP NO.\_\_\_\_

LOCATION: SECOND STREET AND FRANKFORT STREET ON NORTH EAST CORNER

SIZE:

MAIN LINE:\_\_\_\_\_ PRESSURE:\_\_\_\_\_ YEAR I/S\_\_\_\_\_

TYPE:\_\_\_\_\_ REG. INLET:\_\_\_\_\_ HIGH:\_\_\_\_\_

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VALVE NO.\_\_\_\_\_ MAP NO.\_\_\_\_\_

LOCATION: SOUTH EAST CORNER OF FOURTH STREET AT MAIN STREET

SIZE:\_\_\_\_\_

MAIN LINE:\_\_\_\_\_ PRESSURE:\_\_\_\_\_ YEAR I/S\_\_\_\_\_

TYPE:\_\_\_\_\_ REG. INLET:\_\_\_\_\_ HIGH:\_\_\_\_\_

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VALVE NO.\_\_\_\_\_ MAP NO.\_\_\_\_\_

LOCATION: CORNER OF FOURTH STREET AND MAIN STREET, NORTH WEST CORNER

- 14

SIZE:\_\_\_\_\_ MAIN LINE:\_\_\_\_\_ PRESSURE:\_\_\_\_\_ YEAR I/S\_\_\_\_\_

TYPE:\_\_\_\_\_ REG. INLET:\_\_\_\_\_ HIGH:\_\_\_\_\_

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VALVE NO.	
MAP NO.	

LOCATION: PARK STREET AND FOURTH STREET ON NORTH SIDE

SIZE:\_\_\_\_\_ MAIN LINE:\_\_\_\_\_ PRESSURE:\_\_\_\_\_ YEAR I/S\_\_\_\_\_

TYPE:\_\_\_\_\_ REG. INLET:\_\_\_\_\_ HIGH:\_\_\_\_\_

OUTLET: MED.:\_\_\_\_

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VALVE NO.\_\_\_\_\_ MAP NO.

LOCATION: NORTH WEST CORNER OF FOURTH STREET ON WILLIAMS STREET

SIZE:\_\_\_\_\_ MAIN LINE:\_\_\_\_\_ PRESSURE:\_\_\_\_\_ YEAR I/S\_\_\_\_\_

TYPE:\_\_\_\_\_ REG. INLET:\_\_\_\_\_ HIGH:\_\_\_\_\_

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VALVE NO.\_\_\_\_\_ MAP NO.\_\_\_\_\_

LOCATION: NORTH WEST CORNER OF RIVERSIDE DRIVE AT WILLIAMS STREET

SIZE:\_\_\_\_\_ MAIN LINE:\_\_\_\_\_ PRESSURE:\_\_\_\_\_ YEAR I/S\_\_\_\_\_

TYPE:\_\_\_\_\_ REG. INLET:\_\_\_\_\_ HIGH:\_\_\_\_\_

OUTLET:\_\_\_\_\_ MED.:\_\_\_\_

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VALVE NO.	
MAP NO.	

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LOCATION: PARK STREET AT RIVERSIDE DRIVE ON SOUTH SIDE

SIZE:\_\_\_\_\_ MAIN LINE:\_\_\_\_\_ PRESSURE:\_\_\_\_\_ YEAR I/S\_\_\_\_\_

TYPE:\_\_\_\_\_ REG. INLET:\_\_\_\_\_ HIGH:\_\_\_\_\_

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VALVE NO. MAP NO.\_\_\_\_\_

FIFTH STREET FROM REGULATOR STATION EAST LOCATION:

> MAIN LINE:\_\_\_\_\_ PRESSURE:\_\_\_\_\_ YEAR I/S\_\_\_\_\_ SIZE:

> > TYPE:\_\_\_\_\_ REG. INLET:\_\_\_\_\_ HIGH:\_\_\_\_\_

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# **EXHIBIT 5**

Augusta Gas Service Work Order Work Type: Repair
Location/Address: Wagel Road Facility Classification: Distribution Main
Leak Information
Date Discovered: 09/05/2018 How Discovered: Reported To:
Leak Grade:       CGI Used?       Percentage of Gas(%Gas in Air):       Graded By:
Description of Leak: A permanent repair was done to replace a temporary repair.
Cause of Leak:
Atmospheric       Human Error       External       External       Ineffective Procedures       External Loading         Internal       Ineffective Procedures       External Loading       Information of Excavator       Bracken County Water District.         Other       Vandalism       Vehicle       Other       Dig In
Natural Forces Equipment Failure Material and Welds Was 811 Called:
Earthquake
Flood Filter Mechanical Fitting Explain Other
Frost Heave Meter Casing Plastic Fusion Coupling Landslide Regulator/Relief Valve Plastic Dresser
Lightning Threads Plastic to Steel Transition
Washout Other Tap Tee
Other
Pine Information
Pipe Size: 2 NPipe Material: Plastic PE 2406 Coating: Bare Pipe Condition: Excellent EFV No
Corrosion Information
Cathodic Protection: Pipe to Soil Reading: Wall Thickness: Coupons Taken: NO
External Condition: Smooth Pit Depth: IN Internal Condition: Smooth Pit Depth: IN
Anodes Installed:     Anode type:     Repair Coating 1:     Repair Coating 2:
Depth of Cover:       Feet       Inches       Soil Condition:       Moisture:       Soil Packing:
Repair Information
Repair Method:     Repaired     Date Repaired:     10/24/2018     Repaired By:     Darrin Blevins
Description of Repair: Electrofusion fittings and new plastic pipe
Test Information
Length of Pipe     3     FT     Test Type:     Pressure     Test Medium:     Air     X-Ray(STEEL):
Test Start Date/Time: 10/16/2018 Pressure at Start: 45 Pressure Loss: No Operating Pressure 17
Test End Date/Time: 10/16/18 Pressure at End: 45 Amount of Loss 0
Reason for Loss: N/A Corrections Made:
Other
Other Information:
Cleared By: Darring Blevins Date: 10/24/2018





#### Permanent Repair on gas line

#### October 24, 2018





# **EXHIBIT 6**

Exhib: + 6

# ARCRANDOLPH & ASSOCIATES, LLC A REGULATORY COMPLIANCE AND TRAINING COMPANY

#### INVOICE

	invoice	Date No.	12/4/2017 1781	8
Bill to:	City of Augusta P.O. Box 85 Augusta, KY 41002 ATTN: Accounts Payable / Darian Blevins	Due	1/4/2019	)
Quantity	Description		Day Cost Unit	Total Cost
	"Operator Qualification" Classes Shared Cost w/Brooksville - on November 28 - 30, 2018			
3 Days	DOT 192 OQ Qualification Classes: Four Employees Discounted 50% Shared Cost "City of Brooksville"		\$ 1,095.00	\$ 3,285.00 \$ (1,642.50)
	**#32 Total Individual OQ Qualifications **			
4	F-1 OQ Books/Tests/Affidavits F-2 OQ Books/Tests/Affidavits		\$	\$ 220.00 \$ 220.00
4	L-2 OQ Books/Tests/Affidavits M-8 OQ Books/Tests/Affidavits		\$ 55.00 \$ 55.00	\$ 220.00 \$ 220.00
4	M-10 OQ Books/Tests/Affidavits		55.00	\$ 220.00
4	I-1 OQ Books/Tests/Affidavits I-11 OQ Books/Tests/Affidavits I-11 OQ Books/Tests/Affidavits	\$	55.00 55.00 55.00	\$ 220.00 \$ 220.00 \$ 220.00
	Instructor Travel / Postage / Copies (Shared Cost)			\$ 195.50
		1.		

		Amount Due	\$ 3,598.00
Terms		Amount Paid	
Payment Upon Receipt		Balance Due	
1.5% per month after 30 da	ays 🔆		

4017 Washington Road, STE 175, McMurray, PA 15317 / 859-543-0224 office / 412-580-8668 cell

#### ARC **INSRUCTOR: WEBB**

#### Official Transcript Request CONFIDENTIAL

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6.

Last Name	First Name	Company Name	Test Date P/F	Instructor	Test Name	Skill
ARCHIBALD	TROY	CITY OF AUGUSTA	11/30/2018 P	WEBB	CF-1 Exam Join Plastic Pipe with Heat Fusion	CF-1 0751 SIM
ARCHIBALD	TROY	CITY OF AUGUSTA	11/29/2018 P	WEBB	CL-2 Exam Purge Pipelines (Small & Large Diameter)	CL-2 1651 SIM
ARCHIBALD	TROY	CITY OF AUGUSTA	11/30/2018 F	WEBB	CF-2 Exam Join Pipe with Mechanical Fittings	CF-2 0691,0701,0681,0711 SIM
ARCHIBALD	TROY	CITY OF AUGUSTA	11/30/2018 P	WEBB	CI-1 Exam Perform Pipe-to-Soil Potential Surveys on Effectively Coated Buried or Submerged Pipelines	CI-1 0001 SIM
ARCHIBALD	TROY	CITY OF AUGUSTA	11/30/2018 P	WEBB	CI-11 Exam Install Sacrificial Anodes and Test Stations	CI-11 0051,5071 SIM
ARCHIBALD	TROY	CITY OF AUGUSTA	11/29/2018 P	WEBB	CL-3a Exam Monitor Odorant Levels	CL-3A 1211 SIM
ARCHIBALD	TROY	CITY OF AUGUSTA	11/29/2018 P	WEBB	CM-10 Exam Abandon/Deactivate Gas Pipeline Facilities	CM-10 5081,5091,1201 SIM
ARCHIBALD	TROY	CITY OF AUGUSTA	11/29/2018 P	WEBB	CM-8 Exam Make Field Repairs on Gas Pipelines	CM-8 0201,0641,1041,1071,1141 SIM
BACH	DERRICK	CITY OF AUGUSTA	11/28/2018 P	WEBB	CF-1 Exam Join Plastic Pipe with Heat Fusion	CF-1 0751,0781 SIM
BACH	DERRICK	CITY OF AUGUSTA	11/29/2018 P	WEBB	CL-2 Exam Purge Pipelines (Small & Large Diameter)	CL-2 1651 SIM
BACH	DERRICK	CITY OF AUGUSTA	11/28/2018 P	WEBB	CF-2 Exam Join Pipe with Mechanical Fittings	CF-2 0691,0701,0681,0711 SIM
BACH	DERRICK	CITY OF AUGUSTA	11/30/2018 P	WEBE	CI-1 Exam Perform Pipe-to-Soil Potential Surveys on Effectively Coated Buried or Submerged Pipelines	CI-1 0001 SIM
BACH	DERRICK	CITY OF AUGUSTA	11/30/2018 P	WEBE	CI-11 Exam Install Sacrificial Anodes and Test Stations	CI-11 0051,5071 SIM
BACH	DERRICK	CITY OF AUGUSTA	11/29/2018 P	WEBE	CL-3a Exam Monitor Odorant Levels	CL-3A 1211 SIM
BACH	DERRICK	CITY OF AUGUSTA	11/29/2018 P	WEBE	CM-10 Exam Abandon/Deactivate Gas Pipeline Facilities	CM-10 5081,5091,1201 SIM
BACH	DERRICK	CITY OF AUGUSTA	11/29/2018 P	WEB	CM-8 Exam Make Field Repairs on Gas Pipelines	CM-8 0201,0641,1041,1071,1141 SIM
BLEVINS	DARIAN	CITY OF AUGUSTA	11/28/2018 P	WEB	B CF-1 Exam Join Plastic Pipe with Heat Fusion	CF-1 0751,0781 SIM
BLEVINS	DARIAN	CITY OF AUGUSTA	11/29/2018 F 🏟	WEB	3 CL-2 Exam Purge Pipelines (Small & Large Diameter)	CL-2 1651 SIM
BLEVINS	DARIAN	CITY OF AUGUSTA	11/28/2018 P	WEB	B CF-2 Exam Join Pipe with Mechanical Fittings	CF-2 0691,0701,0681,0711 SIM
BLEVINS	DARIAN	CITY OF AUGUSTA	11/30/2018 P	WEBI	CI-1 Exam Perform Pipe-to-Soil Potential Surveys on B Effectively Coated Buried or Submerged Pipelines	CI-1 0001 SIM
BLEVINS	DARIAN	CITY OF AUGUSTA	11/30/2018 P	WEB	B CI-11 Exam Install Sacrificial Anodes and Test Stations	CI-11 0051,5071 SIM
BLEVINS	DARIAN	CITY OF AUGUSTA	11/29/2018 P	WEB	B CL-3a Exam Monitor Odorant Levels	CL-3A 1211 SIM
BLEVINS	DARIAN	CITY OF AUGUSTA	11/29/2018 P	WEB	B CM-10 Exam Abandon/Deactivate Gas Pipeline Facilities	CM-10 5081,5091,1201 SIM
BLEVINS	DARIAN	CITY OF AUGUSTA	11/29/2018 P	WEB	B CM-8 Exam Make Field Repairs on Gas Pipelines	CM-8 0201,0641,1041,1071,1141 SIM
PADGETT	DOUG	CITY OF AUGUSTA	11/28/2018 P	WEB	B CF-1 Exam Join Plastic Pipe with Heat Fusion	CF-1 0751,0781 SIM
PADGETT	DOUG	CITY OF AUGUSTA	11/29/2018 P	WEB	B CL-2 Exam Purge Pipelines (Small & Large Diameter)	CL-2 1651 SIM
PADGETT	DOUG	CITY OF AUGUSTA	11/28/2018 P	WEB	B CF-2 Exam Join Pipe with Mechanical Fittings	CF-2 0691,0701,0681,0711 SIM
PADGETT	DOUG	CITY OF AUGUSTA	11/30/2018 P	WEB	CI-1 Exam Perform Pipe-to-Soil Potential Surveys on B Effectively Coated Buried or Submerged Pipelines	CI-1 0001 SIM
PADGETT	DOUG	CITY OF AUGUSTA	11/30/2018 P	WEB	BCI-11 Exam Install Sacrificial Anodes and Test Stations	CI-11 0051,5071 SIM
PADGETT	DOUG	CITY OF AUGUSTA	11/29/2018 P	WEB	B CL-3a Exam Monitor Odorant Levels	CL-3A 1211 SIM
PADGETT	DOUG	CITY OF AUGUSTA	11/29/2018 P	WEB	B CM-10 Exam Abandon/Deactivate Gas Pipeline Facilities	CM-10 5081,5091,1201 SIM
PADGETT	DOUG	CITY OF AUGUSTA	11/29/2018 P	WEB	B CM-8 Exam Make Field Repairs on Gas Pipelines	CM-8 0201,0641,1041,1071,1141 SIM
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#### Official Transcript Request CONFIDENTIAL

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Last Name	First Name	Company Name	Test Date P/F	Instructor Test Name	Skill
ARCHIBALD	TROY	CITY OF AUGUSTA	02/05/2019 P	WINGATE CF-2 Exam Join Pipe with Mechanical Fittings	CF-2 0691,0701,0681,0711 SIM
				CL-2 Exam Purge Pipelines (Small & Large	
BLEVINS	DARIAN	CITY OF AUGUSTA	02/05/2019 P	WINGATE Diameter)	CL-2 1651 SIM

## **EXHIBIT 7**



"HISTORY on the river...AUGUSTA, my old Kentucky home."

March 1, 2019

To Whom It May Concern:

On March 1, 2019, Darinn Blevins completed training at the Augusta Police Department . Per CFR Part 199.113 (c), Darrin Blevins has completed the necessary training for supervisors regarding the detection of potential drug abuse and alcohol misuse. The minimum requirement of 60 minutes has been met.

If you have any questions please contact me at the number listed below.

**Chief Matthew Jones** 

Chief of Police MATTHEW JONES 219 MAIN STREET P.O. BOX 85 AUGUSTA, KY 41002 phone fax 606-735-2700 606

fax e 606-756-2185

email mjones@augustaky.com

Equal Opportunity Employer & Provider

# **EXHIBIT 8**

NOTICE: Thi exceed 100,0 penalty shall	seceed 100,000 for each violation for each day that such violation persists except that the ma penalty shall not exceed \$1,000,000 as provided in 49 USC 60122.								OMB NO EXPIRAT	: 2137-0629 TON DATE: 10/31/202	21		
U.S Department of Transportation						lni Su	Initial Date Submitted:		03/01/2019				
						Fo	rm Type:		INITIAL				
Pipeline and Hazardous Materials Safety Administration							Date						
A federal age information s Number for ti time for revier mandatory. S Collection Cle Important:	ency may not ubject to the nis informatio wing instruct Send comme earance Offic Please rea	conduct or spo requirements of n collection is 2 ions, gathering th nts regarding th er, PHMSA, Off ad the separat	nsor, and a p f the Paperwi 137-0629. F the data need is burden es fice of Pipelir te instructio	GA berson is not re ork Reduction ublic reporting ded, and comp timate or any c ne Safety (PHF ons for comple	ANNUAL CALEND AS DISTR quired to resp Act unless tha for this collect leting and revi ther aspect of ~300) 1200 New eting this for	A REPORT AR YEAR IBUTION S ond to, nor shall t collection of in thom of informati lewing the collect this collection of w Jersey Avenu m before you	FOR 2018 YSTEM I a person be s formation displ on is estimated ction of information, i e, SE, Washing begin. They of	subject to a per lays a current i to be approx ation. All resp including sugg gton, D.C. 201 clarify the in	nalty for fail valid OMB ( imately 16 h onses to this gestions for 1 590. formation 1	ure to comply with a c Control Number. The ours per response, in s collection of informat reducing this burden to requested and prov	ollection of OMB Contro cluding the tion are b: Informatio ide specific		
examples. http://www.j	lf you do no ohmsa.dot.e	ot have a copy <u>pov/pipeline/li</u>	/ of the inst brary/forms	ructions, you	can obtain (	one from the F	PHMSA Pipel	line Safety (	Community	Web Page at			
PART A - C	PERATOR	INFORMATI	ON		(DOT u	(se only)	inly) 20190236-37637						
1. Name o	of Operator					/	AUGUSTA, C	ITY OF					
2. LOCAT	RMATION N	AY BE OBTA	LE ADDITIC AINED)	NAL									
	2a. Street A	Address				F	PO BOX 85						
	2b. City and	d County				ŀ	AUGUSTA						
	2c. State	_				٢	кү						
	2d. Zip Coo	le			4	1002							
3. OPERA	TOR'S 5 D	IGIT IDENTIF	ICATION N	UMBER		8	864		1				
4. HEADQ	UARTERS	NAME & ADD	DRESS	<u> </u>									
	4a. Street A	ddress				2	19 MAIN ST	; PO BOX 8	35		1.1		
	4b. City and	d County				A	AUGUSTA						
	4c. State					ĸ	KY						
	4d. Zip Cod	e				4	41002						
5. STATE	IN WHICH	SYSTEM OPI	ERATES			ĸ	Ŷ						
6. THIS RE	EPORT PE	RTAINS TO T	HE FOLLO	WING COM . File a sepai	MODITY GF	ROUP (Select	Commodity ( odity Group i	Group based included in t	d on the pro his OPID.)	edominant gas carr	ied and		
Natural Ga	15					1							
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Municipal (	Owned												
PART B - S	ÝSTEM DE	SCRIPTION			a sta			N. N. N. N.					
I.GENERAL			entan Sistema Sik		THE R. LAND			ALCONS AND A	CONTRACTOR CONTRACTOR				
		STE	EL	DICALLY		CAST/	8.0			RECONDITION			
			PROT	ECTED	PLASTIC	WROUGHT	IRON	COPPER	OTHER	ED CAST IRON	SYSTEM TOTAL		
No Contraction	SAILE	0	0	19	12	0	0	0	0	0	31		
MILES OF	0							-		-	-		

	UNKNOWN	2" OR LESS	THRU 4"	OVER 4" THRU 8"	OVER 8" THRU 12"	OVER 12"	SYSTEN
STEEL 0		0	19	0	0	0	19
DUCTILE IRON	0	0	0 0		0	0	0
COPPER 0		0	0	0	0	0	0
CAST/WROUGHT 0		0	0	0	0	0	0
PLASTIC PVC 0		0	0	0	0	0	0
PLASTIC PE 0		5	7	0	0	0	12
PLASTIC ABS 0		0	0	0	0	0	0
PLASTIC OTHER 0		0	0	0	0	0	0
OTHER	0	0	0	0	0	0	0
RECONDITIONED 0		0	0	0 0		0	0
TOTAL 0		5	26	0	0	0	31
escribe Other N	aterial:	L		4		L	L
MATERIAL			OVER 1"	OV/ER 2"	OVER A"		SYSTEM
	UNKNOWN	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 8"	OVER 8"	SYSTEM TOTALS
STEEL	UNKNOWN 0	1" OR LESS 271	OVER 1" THRU 2" 4	OVER 2" THRU 4" 0	OVER 4" THRU 8" 0	OVER 8"	SYSTEM TOTALS 275
STEEL DUCTILE IRON	UNKNOWN 0 0	1" OR LESS 271 0	OVER 1" THRU 2" 4 0	OVER 2" THRU 4" 0 0	OVER 4" THRU 8" 0 0	OVER 8" 0 0	SYSTEM TOTALS 275 0
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MILES OF MAIN	31	o	o	0	o	o	o	0	0	0	31		
NUMBER OF SERVICES	451	o	0	0	0	0	0	0	0	0	451		
PART C - TO	TAL LEAKS	AND HAZ	ARDOUS LE	AKS ELİÑIN	ATED/REPA	IRED DURIN	IG THE YEA	R					
			MAINS					SERVICES					
			Т	OTAL	н	AZARDOUS		TOTAL		HAZARDO	US		
CORROSION FAILURE								1					
NATURA	NATURAL FORCE DAMAGE												
EXCA	VATION DAM	AGE				1							
OTHER	OUTSIDE FO	DRCE											
PIPE, WEL	D OR JOINT	FAILURE											
EQUI	PMENT FAILU	JRE			-								
INCORF	ECT OPERA	TIONS									1. 1. 201		
0.	THER CAUSE						-	1					
NUMBER OF	KNOWN SYS	TEM LEAKS	AT END OF Y	EAR SCHEDU	ILED FOR REI	PAIR : 1					Sec.		
PART D - EX	CAVATION D	AMAĜE				PART E - EXCESS FLOW VALUE (EFV) AND SERVICE VALVE DATA							
1. TOTAL NU ROOT CAUS	MBER OF EX	CAVATIO	N DAMAGES	BY APPARI	ENT	Total Number Of Services with EFV Installed During Year: 0							
a. One-Call I	Notification Pr	actices Not	Sufficient: 0			Estimated Number Of Services with EFV In the System At End Of Year: 20							
b. Locating F	Practices Not S	Sufficient:	<u> </u>		5	t Table Number of Manual Oraciae Line Ohnder Witcher a laster lind Oneira							
c. Excavation	n Practices No	ot Sufficient	:										
d. Other:						* Estimated Number of Services with Manual Service Line Shut-off Valves							
						Installed in the System at End of Year: 451							
							*These questions only pertain to reporting years 2017 & beyond.						
2. NUMBER (	OF EXCAVAT	ION TICKE	TS : <u>40</u>										
PART F - LE	AKS ON FED	D			PART G-PERCENT OF UNACCOUNTED FOR GAS								
TOTAL NUME SCHEDULED	TOTAL NUMBER OF LEAKS ON FEDERAL LAND REPAIRED OR SCHEDULED TO REPAIR: 0						UNACCOUNTED FOR GAS AS A PERCENT OF TOTAL CONSUMPTION FOR THE 12 MONTHS ENDING JUNE 30 OF THE REPORTING YEAR.						
						[(PURCHASED GAS + PRODUCED GAS) MINUS (CUSTOMER USE + COMPANY USE + APPROPRIATE ADJUSTMENTS)] DIVIDED BY (CUSTOMER USE + COMPANY USE + APPROPRIATE ADJUSTMENTS) TIMES 100 EQUALS PERCENT UNACCOUNTED FOR.					USE + BY TMENTS)		
							FOR YEAR ENDING 6/30:						
PART H - AD	DITIONAL IN	FORMATIC	<b>N</b>										

PARTI-PREPARER	
Darin Blevins,operator (Preparer's Name and Title)	(606) 756-2183 (Area Code and Telephone Number)
dblevins@augustaky.com (Preparer's email address)	(606) 756-2185 (Area Code and Facsimile Number)

## **EXHIBIT 9**
# Gas System Operating & Maintenance Plan

City of Augusta

City of Augusta 219 Main Street P.O. Box 85 Augusta, KY 41002

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Excess Flo Service Lin 1. 2. 3. 4. Corrosion	w Valves
Excess Flo Service Lin 1. 2. 3. 4. Corrosion 1.	w Valves
Excess Flo Service Lin 1. 2. 3. 4. Corrosion 1. 2.	w Valves
Excess Flo Service Lin 1. 2. 3. 4. Corrosion 1. 2. 3.	w Valves    8      nes    8      Installing Service Lines    8      Testing Service Lines    8      Operation of Service Lines    9      Maintenance of Service Lines    9      Control    9      Atmospheric Corrosion Control    9      External Corrosion Control, Buried Piping    9      Qualifications for Corrosion Control Personnel    10
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Excess Flo Service Lin 1. 2. 3. 4. Corrosion 1. 2. 3. 4. 2. 3. 4. Continuin	w Valves    8      nes    8      Installing Service Lines    8      Testing Service Lines    9      Maintenance of Service Lines    9      Control    9      Atmospheric Corrosion Control    9      External Corrosion Control, Buried Piping    9      Qualifications for Corrosion Control Personnel    10      Corrosion Control Records    10      g Surveillance    10
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## **Basic Operating and Maintenance Plan Information**

## 1. Purpose of the Plan

This plan prescribes guidelines and minimum standards for the safe and reliable operation and maintenance of natural gas distribution systems.

## 2. Regulatory Requirements

The Natural Gas Pipeline Safety Act of 1968 required the Department of Transportation to develop and enforce minimum safety regulations for transportation of gases by pipeline. These regulations are published in Title 49, Code of Federal Regulations, Parts 190, 191, 192 and 199.

Each gas operator is responsible for compliance with the above regulations and must remain familiar with the requirements contained within.

Gas operating and maintenance procedures are specifically required under 49 CFR 192.605.

#### 3. Implementing the Plan

The management of the City of Augusta is responsible for assuring that all persons having responsibility for operation, maintenance, and periodical inspection of this system are made aware if this plan and are properly trained and qualified to perform as required.

Records must be maintained to verify and document such training.

## 4. Omission from Plan

This plan is written to specifically include various topics of major significance to a gas distribution operator. All codes and standards incorporated by reference are to be considered as part of this plan to the extent that they are applicable.

No written plan is fully inclusive of all details pertinent to operation, maintenance, and inspection. Therefore industry accepted methods shall apply to those areas not specifically addressed in the plan.

## 5. Periodical Review of the Plan

This plan shall be reviewed and revised at intervals not exceeding 15 months, but at least once each calendar year to reflect current regulatory requirements and changes in the system.

Each person responsible for implementation of this plan is encouraged to offer suggestion that would make this plan more effective.

## 6. Terminology

Standard English dictionary definitions shall apply except where industry accepted terminology prevails. As used herein the following meanings and definitions apply:

<u>Employee</u>	Any person employed or authorized by the company to perform operating, maintenance, or construction functions related to the gas distribution system.
Gas	The combustible gas distributed for sale to customers of the company.
Personnel	Same as employee
<u>Main</u>	A distribution pipe that serves as a common source for more than one service line.
<u>Pipeline</u>	All parts of the physical system that carry gas, including mains, service lines, and district regulator stations.

## **Employee Responsibilities**

## **1.** Recognition of Hazards

Each employee shall remain aware of potential hazards resulting from natural gas leaks and other gas system malfunctions.

Such hazards include, but are not limited to:

- a. Natural gas when mixed with air is combustible. It is easily ignited by open flame, electric spark including static discharge, or by spark from abrasion. The gas has a lower limit of flammability of approximately 5% and an upper flammability limit is approximately 15% by volume mixed with air.
- b. Natural gas is lighter than air, with a specific gravity of approximately 0.6. Escaping gas will tend to rise from the point of escape and accumulate in higher locations.
- c. Natural gas escaping at high velocity through polyethylene pipe may cause a high voltage static electric discharge to occur, which may produce ignition under certain conditions. Specific precautions as described in "<u>Prevention of Accidental Ignition OQ Task M-7</u>" must be taken to minimize the danger of self-ignition from static electricity whenever a flammable gas is allowed to escape through plastic pipe.
- d. Potential hazards exist anytime excavation work is performed or work is performed within an excavation. Damage or injury resulting from interference with underground electric wires, asphyxiation, and ignition of gas or cave-ins are all possible hazards.
- e. All applicable company safety standards regarding personal protective equipment and work procedures must be followed to assure the safest possible work environment.
- f. All reasonable precautions shall be taken to protect the public from hazards resulting from escaping gas, open excavations, or other dangers resulting from operation and maintenance of the gas distribution system.

## 2. Implementation of Emergency Operating Plan

As required by 192.615, The City of Augusta has a written emergency plan to address and minimize the hazard resulting from a gas pipeline emergency. The emergency plan specifically addresses for the following emergency situations:

- a. Gas detected inside or near a building.
- b. Fire located near or directly involving a pipeline facility.
- c. Explosion occurring near or directly involving a pipeline facility.
- d. Natural disaster affecting a pipeline facility.
- e. Safe restoration of any service outage.
- f. Any situation which requires prompt and effective response to eliminate potential for injury or property damage resulting from gas.

## **Customer Meters and Regulators**

#### 1. Location of Customer Meters and Regulators

Each meter and service regulator must be installed in a readily accessible location and be protected from corrosion and other damage. Unless absolutely unavoidable, meters shall not be installed in any location where visits of the meter reader or tester will cause annoyance to the customer or severe inconvenience to the utility. Meters and regulators shall be installed outdoors whenever practical.

Meters in our near driveways or parking areas where subject to contact from vehicles shall be protected with suitable barricades.

Each regulator which might releases gas in its operation shall be vented to an outside location where gas is not likely to accumulate at or below ground level, and will not be likely to enter any opening into a building or come in contact with an ignition source.

#### 2. Specific Requirements for Service Regulators

Each service regulator used must be capable of reducing distribution line pressure to the pressure recommended for household appliances.

All atmospheric vents on service regulator and relief valves must be insect resistant and protected against entry of rain or accumulation of water form condensation.

## 3. Installation of Customer Meters and Service Regulators

Each meter and regulator installation must be properly supported and designed to minimize anticipated stresses upon connections and piping. <u>Use of all-thread (close) nipples is prohibited</u> for gas carrying piping.

#### 4. Meter Valves

Each service line valve installed above ground must be designed and constructed in a manner in which the possibility of removal of the core with other than specialized tools is minimized.

## Excess Flow Valves

Beginning September 15, 2010, the City of Augusta will install excess flow valves on all new single residence service lines operating at or over 10 PSIG. The valves will be installed at the City of Augusta's expense. They will be installed according to 49 CFR Part 192, and the manufacturer's installation instructions.

On July 9, 2018, existing Augusta gas customers were mailed notification that Excess Flow Valves (EFV) are being made available to existing customers and installed for a fee. The notice included a contact number to call if interested.

## Service Lines

## 1. Installing Service Lines

Each service line must be installed and connected to the main by qualified personnel in accordance with the construction specifications set forth in the appendix of this procedures manual and <u>Operator Qualification Manual H-2</u>.

All materials used must be of good quality and intended for use with natural gas. All pipe and fittings used must be manufactured and tested in accordance with applicable listed specifications.

## 2. Testing Service Lines

Each new service line must be pressure tested for leaks using air, inert gas, or other suitable test medium prior to being placed into operation. A good quality mechanical or electronic gauge must be used to monitor the test pressure for as long as necessary to discover any potentially hazardous leaks. If feasible the service line connection to the main must be included in the test; if not reasonable, the connection to the main must be leak tested at operating pressure when place in service. In conducting pressure tests reasonable precautions shall be taken to protect employees and the general public from injury in the event of a failure of the service line or test apparatus.

Each disconnected service line must be tested in the same manner as anew service line from the point of disconnection to the meter valve prior to being put into operation.

Minimum test pressure for steel service lines intended to operate at 1 PSIG or less shall be 10 PSIG for five minutes.

Minimum test pressure for steel service lines intended to operate from 1 PSIG to 40 PSIG shall be 50 PSIG for not less than five minutes.

Minimum test pressure for steel service lines intended to operate from 100 PSIG or over shall be 90 PSIG for not less than five minutes.

Minimum test pressure for steel service lines intended to operate at 100 PSIG or over shall be 1.5 times maximum operating pressure for not less than five minutes.

Minimum test pressure for plastic service line shall be 50 PSIG or 1.5 times maximum operating pressure whichever is greater for five minutes.

Existing service lines not physically disconnected shall be tested at operating pressure for not less than 3 minutes.

## 3. Operation of Service Lines

Service lines, including customer meters and service regulators, must be included in the continuing surveillance program, corrosion control program, and periodic leakage survey.

## 4. Maintenance of Service Lines

All repairs to service lines must be made by qualified personnel using approved materials and methods as specified in the repair specifications in the appendix of the procedure.

In the event that gas is escaping from a damaged service line, reasonable precautions shall be taken to prevent accidental ignition and to protect employees and the general public from dangers that may result from oxygen deficiency or ignition of gas.

Each service line abandoned in place must be disconnected from the source of gas as close to the main as possible and the pipe ends sealed.

## **Corrosion Control**

## 1. Atmospheric Corrosion Control

Each above ground pipeline or portion thereof which is exposed to the atmosphere and which carries gas under pressure must be painted coated or jacketed with a material suitable to prevent atmospheric corrosion. This includes exposed piping at distribution regulator stations, service risers and piping at customer meter and regulator installations, exposed pressure regulators, monitor regulators, relief valves and fittings, and all other exposed gas carrying main or service line piping.

At intervals not to exceed three (3) years, each above ground pipeline or portion thereof must be inspected for atmospheric corrosion. If atmospheric corrosion is found, proper remedial action must be taken to prevent further corrosion. If a paint or surface coating is used, the manufacturer's instructions should be followed for proper surface preparation and applications.

## 2. External Corrosion Control, Buried Piping

All buried gas carrying metallic piping must be effectively protected against external corrosion. Such protection may be provided by each of the following:

- a. All buried metal surfaces must be coated with a factory applied or field applied coating specifically designed to prevent underground corrosion.
- b. Cathodic protection must be provided by maintaining a pipe to soil potential of at least negative .85 volts and measured through a copper sulfate half-cell. Protective voltage is normally provided by means of magnesium anodes.
- c. The catholically protected section must be electrically isolated from other metallic structures above or below ground.

Each pipeline that is under cathodic protection must be tested at least once each calendar year, at intervals not to exceed 15 months. Isolated short sections of cathodically protected piping, such as on service risers may be tested on a sampling basis if annual testing is not practical. At least 10% must be sampled each year distributed over the entire system, with a different 10% each subsequent year such that the entire system is sampled in a ten-year period.

## 3. Qualifications for Corrosion Control Personnel

All personnel conducting electrical surveys of cathodically protected facilities must be properly trained to use and maintain the instruments and to interpret the results. Corrosion Personnel must be qualified as outlined in the City of Augusta's Operator Qualification Plan.

Proper procedures must be followed for installation of anodes and application of protective coatings.

## 4. Corrosion Control Records

Records shall be maintained to show the locations of cathodically protected piping and facilities, and results of surveys and tests including remedial actions, for as long as each facility is in service.

Records must be in sufficient detail to demonstrate the adequacy of the corrosion control program, including control of atmospheric corrosion. However, cathodic protection records may be maintained separately from atmospheric corrosion surveillance records.

## **Continuing Surveillance**

## 1. Scope of Surveillance Program

Each employee responsible for operation or maintenance is to remain attentive to conditions affecting the safety and reliability of the gas system and its components, and is to continually observe for such conditions during the performance of duties.

This surveillance is to include conditions surrounding or adjacent to the system which may lead to hazards.

## 2. Specific Surveillance Guidelines

The continuing surveillance program includes, but is not limited to observation for the following conditions:

- Excavation or construction activities near buried facilities.
- Mains or service lines exposed by soil erosion.
- Evidence of leaking gas from mains or service lines.
- Permanent or mobile dwelling units or other building structures placed or constructed over buried service lines or mains.
- Damaged customer metering facilities.
- Customer metering facilities in need of barricade protection.
- Atmospheric corrosion or rust on customer meters and associated piping.
- Abnormal pressure readings on system gauges.
- Missing locks or ineffective security on bypass valves or other valves, which could cause a system malfunction if operated by, unauthorized personnel.
- Required pipeline markers missing, damaged, or severely faded.
- Rooms, garage, carport or other structures built over a service line or main.

#### 3. Remedial Actions

Any deficiencies must be acknowledged and appropriate remedial action initiated in accordance with the degree of urgency appropriate for the conditions observed.

Serious leaks or other imminent dangers must be given immediate attention, whereas atmospheric corrosion or other conditions not immediately hazardous may be scheduled for timely repair.

## 4. Surveillance Records

Records shall be maintained of the deficiencies found and the remedial actions taken. Location, date, description, and identity of worker should be included.

## **Damage Prevention**

The City of Augusta will meet the requirements of 192.614 through participation in the states 811 one call system and their Public Awareness Plan.

## **Line Markers**

Line Markers will be placed and maintained as close as practical over each buried main and transmission line except those in Class 3 or Class 4 locations where covered by the City of Augusta damage prevention program.

The markers will contain the words, "Warning," "Caution" or "Danger" followed by the words "Natural Gas Pipeline" along with the name "City of Augusta" and the phone number where the operator can be reached at all times.

## **Investigation of Failures**

#### 1. Scope of the Program

All accidents and failures directly involving the gas system must be investigated for the purpose of determining their cause, so that appropriate actions may be taken to minimize the probability of recurrence.

#### 2. Guidelines for Investigation of Failures

All leaks in service lines or mains, over pressure conditions, system outages, or inadequate delivery pressure occurrences are considered as failures and should be investigated to determine factors which contributed to or directly caused the failure.

Leaks in polyethylene resulting from failed heat fusion or mechanical joints, or stress cracking in the pipe wall should be thoroughly investigated including laboratory analysis. If the cause of the failure is determined to be from defective material or defective workmanship a plan must be developed to locate other areas which may be affected, and to perform leakage surveys in locations within those areas where failure would present the greatest hazards. Current joining methods are to be reviewed to assure that written procedures are being followed by properly trained and qualified personnel.

Malfunctions of pressure regulating or over pressure protection devices must be investigated to determine whether the failure was caused by poor maintenance, defective material, or outside forces. If other pressure controlling devices are likely to be affected in the same manner, a program shall be implemented to check such devices on a sampling basis.

## **Tapping under Pressure**

## 1. Qualification of Personnel

Each tap made on a pipeline under pressure must be made by personnel properly trained and qualified to make hot taps. Such training shall include recognition of hazards that may result from escaping gas as well as specific knowledge of the procedures for ignition prevention and control, and protection of personnel.

## 2. Safety Precautions

All applicable safety procedures shall be followed to assure protection from injury resulting from accidental ignition or oxygen deficiency.

## **Regulator Inspections**

#### 1. Pressure Regulators

Each pressure regulator used for pressure reduction or for pressure limiting should be inspected once each calendar year not to exceed 15 months.

The inspection will ensure that each regulator is in good working order, controls at its set pressure, operates or strokes smoothly and shuts off within the expected and accepted limits.

## 2. Additional Inspections

A visual inspection shall be conducted to assure that building, fences, storm drainage and exposed piping and equipment are in acceptable condition. All exposed piping and equipment should be visually inspected for evidenced of atmospheric corrosion. An inspection or test of stop valves should be made to ensure that the valves will operate and are correctly positioned.

#### 3. Relief Valves

Each relief valve and other overprotection devises will be inspected at least <u>once each calendar</u> <u>year not to exceed 15 months</u>.

The inspection shall include but is not limited to:

- Adequate from the standpoint of capacity and reliability
- Checking the set-point pressure, inspecting the relief valve
- Inspecting the relief valve, branch piping and stack to ascertain they are in good mechanical condition
- Check for evidence of tampering
- Check for signs of atmospheric corrosion.
- Ensure plugs are in the test connectors.

## Maximum Allowable Operating Pressure

The maximum allowable operating pressures (MAOP) for pipelines and pipeline facilities shall be established by using guidelines as set forth in 49 CFR Part 192.

The City of Augusta is responsible for insuring the maximum allowable operating pressure, which have been determined for each pipeline, are not exceeded. It shall be responsible for establishing and maintaining system (MAOP) records on all pipelines.

## **Emergency Valve Inspections**

Designated Emergency Valves <u>shall be inspected each calendar year not to exceed 15 months</u>. The inspection shall include the following:

- Verify that the valve location measurements in valve book is correct
- Clean debris from the valve box to make operating the valve easier
- Verify that the type and size of the operating nut or curb valve type matches the listing can be operated with the keys and tool normally carried by gas company personnel
- Verify the Valve box lid is clearly identified with the word "Gas"
- Verify the valve number identification for each valve
- Check the pipeline facilities for atmospheric corrosion
- Partially operate the valve to ensure it is operable
- Lubricate the valve if necessary.

## **Odorization**

## 1. Odorant Requirements

Combustible gas transported through distribution pipeline, must contain an odorant so that it is readily detectable by a person with normal sense of smell at a concentration of one-fifth (1/5) its lower explosive limit in air.

The odorant used must not be harmful to the materials used in the piping system or to people, and must not produce harmful products of combustion.

## 2. Sampling for Odorant

Natural gas is monitored monthly for odorant as required by 49 CFR 192.625.

## **Purging**

## 1. Required Purging

Whenever a main or service line is being put into service, it is necessary for all air or other noncombustible gas to be purged from the line.

## 2. Safety Precautions

If a polyethylene main is being purged, special precautions must be followed to prevent static electricity from discharging and igniting the escaping gas. Such precautions are described in "Prevention of Accidental Ignition Operator Qualification Task M-7."

Anytime air is being purged with gas, or gas is being purged with air, it is necessary to maintain a rapid flow rate. This will ensure turbulence at the gas/air interface minimizing the size of the combustible mixture zone.

Care must be taken to ensure that gas is not discharged in an area in which it will accumulate and create a hazard. Potential ignition sources must be kept away.

## Leakage Survey

## 1. Frequency of Surveys

Leakage surveys must be conducted as often as needed to discover leaks, which could result in a hazard. Leakage survey with leak detector equipment must be conducted in business districts at intervals not exceeding 15 months, but a least once each calendar year. Outside business districts intervals must not exceed 2 calendar years.

Additional surveys are necessary to assure that leaks have not developed following earthquake, major excavations activities, blasting, washout, landslide or ground settlement near gas pipeline facilities.

Additional survey may be required as a result of investigation of a failure as covered in "Investigation of Failures."

## 2. Method of Performance of Leakage Survey

Leakage survey may be conducted using either the surface or subsurface method.

A surface gas detection survey is a continuous sampling of the atmosphere performed using either portable or mobile equipment. Sampling is conducted at ground level for buried gas facilities and adjacent to above-ground facilities with a gas detector system capable of detecting a concentration of 50 ppm or gas in air at any sampling point.

Subsurface gas detection survey shall consist of testing bar holes with a combustible gas indicator or other instrument capable of detecting 10% or less of the lower explosive limit. The bar holes should penetrate to the depth of the main as close as practical to the main, taking care to avoid damaging the main. The sample should be drawn from near the bottom of each hole, taking care to avoid drawing water into the instrument. The instrument used should be equipped with a device to prevent liquid from being drawn.

Spacing of bar holes may be determined in accordance with the proximity to buildings and underground structures, such as sewers and manholes. In those areas where leaking gas would present the greatest hazard spacing should be closest. In all cases bar hole samples shall be taken near the service riser at the customer's meter. Areas in which service lines area near sewer lines or building foundations shall be sampled at intervals as close as necessary, but not to exceed 20 feet. Catch basins, manholes, and other underground structures near mains and service lines should be tested near the bottom.

Spacing of bar holes for surveying mains in close proximity to buildings or underground structures should be at intervals of twenty feet (20) or less.

Sewers, catch basins, ditch lines and other low areas in the proximity of mains and services shall be tested for gas as part of any leakage survey.

#### 3. Grading Leaks

Each leak discovered must be graded according to the following:

#### a. Grade 1 – Hazardous Leak

Any leak that represents an existing or probable hazard to persons or property and requires immediate repair or continuous action until conditions are no longer hazardous is considered a Grade 1 leak. A leak which results in a measurable quantity of gas migrating into any buildings used for human occupancy or concentration of 50% or more of the lower explosive limit is a sewer, manhole, or other underground structure is Grade 1.

## b. Grade 2 – Non-hazardous Leak

Any leak that is recognized as being non-hazardous at the time of detection but justifies scheduled repair based on probable future hazard.

Generally an outdoor leak in a main or service line and in which gas is not migrating into or near a building or underground structure is Grade 2. A leak that results in a slight concentration of gas migrating into a sewer, manhole or other underground structure away from any building used for human occupancy may be a Grade 2.

## c. Grade 3 – Nuisance Leak

Any leak that is non-hazardous at the time of detection and can be reasonable expected to remain non-hazardous (less severe than a Grade 2.) may be considered to be a Grade 3 leak.

A very small leak, such as a fitting or value on a meter loop, where the source of the leak is apparent and predictable may be Grade 3.

## 4. Disposition of Leaks

<u>Any Grade 1 leak must receive immediate action</u> to control the escape of gas or otherwise eliminate likely hazards. Normally the source of gas to the leak will have to be shut off using valves.

A Grade 2 leak may be scheduled for repair in a timely manner. Anticipated cold weather should be considered when scheduling repairs. Freezing ground surface may stop the ventilation of gas and force migration below ground. Also, interruption of service to customers presents greater hardship in cold weather.

Any Grade 2 leak not repaired within 6 months should be rechecked to assure that it has not become more hazardous.

A Grade 3 leak is not required to be repaired, but <u>must be monitored annually</u> to verify its classification. If the leak becomes severe enough to be classified as Grade 2, it must be scheduled for repair accordingly.

Records must be maintained of each leakage survey to document the areas surveyed and results. Survey dates, description of survey area, addresses of locations of leaks and their grades, type of instruments used, survey method, and names of survey technicians should be included.

## 5. Leak Records

Records must be kept for all leaks reported to the company or discovered by the company or its employees. <u>Records must be retained for at least five (5) years and must contain address or location, method of detection or receipt of notice, date of detection, date of repair, follow-up surveillance dates, grade and description of cause and method of repair for each leak.</u>

The leak records kept should contain information consistent with the annual reporting requirement of 49 CFR 191.11

## **Abandonment or Inactivation of Facilities**

Each pipeline abandoned in place must be disconnected from all sources of gas and purged if the volume of gas contained is sufficient to present a hazard. The open pipe ends are to be sealed in a gas tight and water tight manner using an appropriate mechanical fitting, heat fusion, expanded foam or other effective method.

Whenever service to a customer is discontinued one or more of the following actions must be taken:

- a. The valve that is closed to prevent the flow of gas to the customer must be locked or otherwise prevented from operation by unauthorized persons.
- b. A mechanical device or fitting must be installed in the service line or meter assembly to prevent the flow of gas. A disc installed between the meter inlet and swivel is sufficient for this purpose.
- c. The customers piping must be disconnected from the supply of gas and the open pipe ends sealed.

If a customer is permanently disconnected or is expected to be discontinued for an extended time period, the service line should be disconnected as close to the main as possible to prevent third party damage.

<u>Records should be maintained of inactive facilities to show the locations, dates, methods of isolation</u> from gas, and other information, which will be needed later to properly return to service.

## **Preventing Accidental Ignition**

## 1. Scope of the Program

Steps must be taken to minimize the probability of ignition of gas anytime gas is blowing to atmosphere, and in which ignition would present a danger to the public, personnel, or property.

## 2. Specific Precautions to Take

Whenever a hazardous amount of gas is being discharged into open air the following precautions shall be taken:

- 1. Avoid discharging natural gas into a confined space.
- 2. If in an area where public access is likely place barricades, traffic cones, or other controlling devices with suitable warning signs to limit ingress by the public.
- 3. Remove all apparent sources of ignition from the area of escaping gas. Motor operated equipment, open flame, smoking tobacco, two-way radio equipment, cellular phones and electric switches are all possible ignition sources.
- 4. Avoid wearing nylon, polyester, or other synthetic clothing while working around escaping gas. Synthetic materials are capable of producing static electricity, particularly when the humidity is low.
- Test for presence of combustible gas in excavations before entering. Avoid entering if combustible gas is present at a concentration greater the 20% of the lower explosive limit (LEL). Use mechanical blowers if necessary to maintain less that 20% LEL when working in excavation.
- 6. Do not perform cutting, welding, heat fusion or other mechanical operations on mains containing gas-air mixtures. Mains must contain 100% gas or 100% air (or inert gas) when construction or maintenance work is performed.
- 7. Whenever separating metallic pipe such as at a customer's meter loop, place an electrical bond wire around the area of separation to maintain electrical continuity and eliminate sparking.
- 8. Whenever gas is discharging from plastic pipe special precautions shall be taken to prevent static discharge and spontaneous ignition.

## 3. Special Precautions for Polyethylene Pipe

Gas flowing at high velocity through polyethylene pipe may create a static electric charge on the wall of the pipe and on any particles of foreign material carried in the gas stream. This can cause ignition of the flowing gas to occur spontaneously. There are certain precautions that can be taken to minimize this probability of occurrence.

a. When a plastic main or service line is punctured and must be squeezed to stop the flow of gas the squeezing should be done from a second hole a safe distance from the escaping gas.

- b. Wet cloth, cotton, canvas, burlap, or other natural fabric should be wrapped around the damaged or open pipe near the point of discharge. The wet fabric must contact the ground and the ground must be damp or wet. Liquid detergent should be mixed with the water used to wet the rags.
- c. A metal pipe should be used as the final discharge stack for purging or otherwise blowing gas to atmosphere. The metal pipe must be electrically grounded using a stranded copper wire and ground rod. The polyethylene pipe exposed proceeding the transition to the metal pipe should be wrapped with wet fabric as stated in (b).

## **Employee Protection**

The City of Augusta will take adequate precautions in excavated trenches to protect personnel from the hazards of unsafe accumulations of vapor or gas, and, making available when needed at the excavation, emergency rescue equipment, including a breathing apparatus and, a rescue harness and line.

To protect personnel or warn of unsafe vapors, an  $O^2$  monitor will be used to detect before using rescue equipment.

## **APPENDIX A – CONSTRUCTION AND REPAIR**

All construction and repair of gas carrying facilities in the gas distribution system must comply with the requirements of 49 CFR Part 192. This appendix contains a summary of construction and maintenance<sup>\*</sup> requirements for polyethylene systems that will help to ensure compliance with these regulations.

## I. Qualification of Materials

All pipe, fittings, valves, and other components which carry gas under pressure must be chemically compatible with the gas being transported and must be designed to withstand the stresses which result from the intended operation.

All plastic pipe which carries gas must be polyethylene and must be manufactured in accordance with specification ASTM D2513. Pipe qualified under this specification must be marked at intervals of two (2) feet (or less) showing ASTM D2513, brand name, material grade, nominal size, wall thickness or SDR, and other batch identification. Polyethylene grades PE 2406 and PE 3408 are acceptable grades. The grade designation will normally be followed by a three-letter suffix that indicates an elevated temperature, its corresponding strength, and the melt index for the material.

Minimum wall thickness should correspond with the following table for polyethylene pipe: (all dimensions in inches)

1/2"	CTS	0.625 O.D.	.090	SDR 7
1/2″	IPS	0.840 O.D.	.090	SDR 9.3
3/4″	IPS	1.050 O.D.	.095	SDR 11
1″	CTS	1.125 O.D.	.099	SDR 11.5
1 1/4"	IPS	1.660 O.D.	.166	SDR 10
2″	IPS	2.375 O.D.	.216	SDR 11

Each heat fusion fitting for polyethylene must be made of a grade of polyethylene compatible with the pipe used. A qualified written procedure must be available for joining the fitting to the pipe.

Each plastic mechanical fitting used to join polyethylene pipe to polyethylene pipe must be made of a grade of a plastic material compatible with the gas being transported. An internal stiffener must be used to reinforce each pipe end, and must be the proper diameter for the size and wall thickness of the pipe. Gasket or compression ring material must be suitable for use with the natural gas. Metal-bodied fittings are not desirable for joining polyethylene to polyethylene pipe below ground due to the need for cathodic protection and corrosion control surveillance.

Metal bodied transition fittings may be used to join polyethylene pipe to cathodically protected steel pipe below ground, or to steel pipe above ground. Each fitting must have a properly designed stiffener and gasket or compression ring material must be suitable for use with natural gas.

Qualified written procedures must be available for all mechanical fittings used with polyethylene pipe.

All steel pipe used at meter loops must be of a listed API or ASTM specification and must be schedule 40 or heavier wall thickness.

All fittings used at meter loops must be marked to show brand name or trademark and must be malleable iron or steel. Fittings must be designed for a least 150 PSIG working pressure and be of standard dimensions.

Meter valves must be tamper proof, such that the core is not easily removed with ordinary hand tools. Marking must include brand or trade name, pressure rating, "G" or other designation for gas and "T" or other designation for tamper proof construction.

## II. Qualification of Personnel

All personnel engaged in the construction and repair of mains and service lines must be qualified as outlined in the City of Augusta's Operator Qualification Plan.

Each person who will be making a joint on polyethylene pipe, whether polyethylene to polyethylene or polyethylene to steel, must be certified in the use of the qualified written procedure for the joint being made. All provisions of 49 CFR 192.285 will be followed.

Welding on steel piping must be performed by a qualified welder in accordance with welding procedures qualified under section 5 of API 1104 incorporated by reference in 49 CFR Part 192.7.

## III. Planning Construction of Mains

Prior to start of construction a comprehensive plan should be made. Limits of public right-ofway or easements and locations of other utilities, which may affect the proposed construction, need to be determined. The location selected for the proposed main must take interference with other utilities and other conflicts into consideration. Affected property owners and other utilities should be advised of proposed construction. Application should be made for state and local permits when required.

The proposed main shall be designed of proper size to supply present and anticipated future demand. The maximum allowable operating pressure for polyethylene mains carrying natural gas may not exceed 60 PSIG.

## IV. Installation of Mains

Distribution gas mains must be installed with 24-inch minimum cover. Where an underground structure prevents having 24-inch cover other precautions must be taken to protect the main against damage from anticipated external load or dig-in. Where feasible, a minimum of 12 inches shall be maintained between a main and other underground structure or pipeline.

Polyethylene mains may not be installed above ground unless fully encased in a steel pipe.

Polyethylene mains must be installed resting on well-compacted soil free of foreign objects or sharp rocks that may gouge or puncture the wall of the pipe. Backfill material must be free of sharp rocks or other material that may damage the pipe. If necessary sand backfill shall be compacted 6" minimum in each direction above, below, and beside the pipe to provide a cushion against damaging materials.

Polyethylene pipe must be transported and handled with care to avoid damage. Each section of pipe shall be visually inspected before being lowered into the trench. Any cuts or gouges that are 10% or more of the wall thickness in depth shall be repaired by removal of a section of pipe containing the damage.

Polyethylene pipe must not be stored for extended periods in direct sunlight. The pipe manufacturers' guidelines should be followed.

A tracer wire must be installed with polyethylene pipe. Solid or stranded copper wire, number 12 AWG or larger, insulated with plastic or rubber is recommended. The tracer wire should be electrically continuous with the tracer wire for each service line to provide accessibility for line locating. To the extent practical, physical contact between the tracer wire and main should be avoided to minimize potential damage from lightning.

As additional protection against third-party damage, installation of warning tape approximately 12 inches below the surface and directly above ground is recommended.

## V. Inspection of Mains

Each main installed must be inspected by a properly trained and qualified person prior to being put into operation. This inspection is to ensure proper installation and joining and shall include the following:

- a. Credentials of each person making joints in polyethylene pipe must be verified to be current for the procedures being performed.
- b. All joints must be visually inspected for compliance with qualified written installation.
- c. The condition of the bottom of the ditch shall be checked to assure the pipe is resting on smooth and well-compacted soil, free of materials which may damage the pipe.
- d. The tracer wire must be examined to ensure continuity and accessibility after backfill.
- e. Depth of burial shall be checked.
- f. Surface of pipe shall be visually inspected for damage. Any pipe containing cuts or scratches penetrating 10% or more into the pipe wall must be cut out and replaced.
- g. Marking on pipe and fittings must be checked to verify compliance with material specifications.
- h. Backfill material must be checked for metal, sharp rocks, building scraps, or other materials that may damage the pipe surface.

## VI. Testing Mains

Each main or section of polyethylene main must be tested to at least 150% of the maximum operating pressure, but not less than 50 PSIG before being placed into operation. Air, carbon dioxide, or nitrogen are acceptable test mediums. The test must be left on long enough to discover any potentially hazardous leaks. The final tie-in to an existing main may be leak tested at operating pressure with gas.

Any leaks discovered must be repaired.

## VII. Main Records

Records must be retained for the useful life of each main to include at least the following:

- a. The name of the company operating the main.
- b. Test results including pressure, duration and medium used.
- c. Leaks or failures discovered during test and remedial action taken.
- d. Size, wall thickness, material designation, brand.
- e. Location of main and depth of burial.
- f. Date of installation.
- g. Name of contractor used for installation and testing.

- h. Name of employee inspecting or supervising installation.
- i. Any other information deemed appropriate.

## VIII. Service Line Installations

Service lines must be installed with a minimum of 18 inches cover in public right-of-way and 12 inches cover in private property.

Polyethylene service lines must be installed on well-compacted soil free of foreign material or sharp rocks that may gouge or damage the wall of the pipe. Backfill material must be free of sharp rocks or other material that may damage the wall of the pipe. If necessary, sand backfill shall be compacted in each direction above, below, and beside the service line for protection.

Polyethylene pipe must be handled and transported with care to avoid damage. Each section shall be inspected before installation for evidence of deep scratches, cuts, or gouges which penetrate 10% or more of the wall thickness. Damaged pipe shall not be installed.

Polyethylene service pipe shall not be stored or exposed to direct sunlight for extended time periods.

A tracer wire must be installed with polyethylene service lines. Solid or stranded copper wire; number 12 AWG or larger, rubber or plastic insulated may be used. The tracer wire should be electrically connected with the tracer wire at the main, and should be brought above ground at the meter riser. <u>Physical contact between the tracer wire and the service line should be avoided to minimize potential damage from lightning</u>.

Connection to the main may be made using approved mechanical fittings or heat fusion fittings. A person certified to be qualified in the use of the procedure must follow qualified written procedures.

Polyethylene pipe must be shielded from exposure to sunlight or physical force when brought above ground. Anodeless risers or service head adaptors that encase the polyethylene pipe to an above ground transition may be used at meters.

Underground connections between service lines and mains or other fittings may be protected against shearing force from ground settlement with a sleeve of larger rigid plastic pipe. This sleeve may be any commercial grade of plastic.

Meter locations, meter supports, barricading, pressure testing, and recordkeeping shall be completed in accordance with information included in "Customer Meters and Regulators" and "Service Lines."

## IX. Repairs to Mains and Service Lines

All repairs to polyethylene mains and service shall be made by removal and replacement of the damaged pipe. As with initial installation only approved mechanical or heat fusion fittings may be used by qualified personnel in accordance with qualified written procedures.

All applicable precautions shall be taken to ensure safety to the public and personnel.

# EXHIBIT 10

## CITY OF AUGUSTA NATURAL GAS SYSTEM EMERGENCY PROCEDURES REVISED February 21, 2019

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## **INTRODUCTION**

This manual has been prepared to provide company Personnel with data essential in an emergency situation.

It must be recognized that no emergency manual can cover all situations, that there is no substitute for the sound judgment of the situation by the person or persons involved, and that the safety and well being of the public must always be given prime consideration.

It is important that those who will have the responsibility of handling an emergency situation be familiar with the contents of the manual.

This manual is to be used as an emergency format and does not contain operational data.

## **DEFINITION OF EMERGENCY INCIDENT**

An "Emergency" condition exists when a designated company representative has declared that extraordinary procedures, equipment, man-power and supplies must be employed to protect the public from existing or potential hazards. These hazards may include, but are not limited to the following:

- 1. Facility failures which result in:
  - A. Under pressure in the system.
  - B. Over pressure in the system.
  - C. Large volumes of uncontrolled escaping gas.
  - D. Fire or explosion, etc.
  - E. Any leak considered hazardous.
  - F. The continued safe operation of a major segment of the system is endangered.
- 2. Load Curtailment conditions where it is necessary to meet unusual and exceptional conditions by the voluntary or mandatory reduction of gas usage by selected customers.
- Natural disasters such as floods, tornados, earthquakes or other severe forces of nature which make emergency provisions necessary.
- 4. Civil disturbances or riots which require special procedures.
  - A. Watchman of Company Facilities duties of these people.
  - B. Person in charge of obtaining additional help armed guards,
    fireman, police, National Guard, State Police.
- 5. National Emergencies.

## COPIES OF EMERGENCY MANUAL HAVE BEEN GIVEN TO THE FOLLOWING:

- 1. Mike Taylor, Mayor
- 2. Darian Blevins, Maintenance Supervisor.
- 3. Matt Jones, Police Chief
- 4. Tony Mefford, Fire Chief

## NOTE: TWO COPIES ARE LOCATED IN MAIN OFFICE NEAR TELEPHONE.

## **COMPANY PERSONNEL ADDRESS AND TELEPHONE DIRECTORY**



## **ORGANIZATION CHART AND ORDER OF NOTIFICATION**

- 1. Darrin Blevins, Supervisor
- 2. Mike Taylor, Mayor
- 3. Troy Archibald, Maint.
- 4. Derrick Bach, Maint.
- 5. Gretchen England, Clerk

606-756-2182 Work 606-756-2182 Work 606-756-2182 Work 606-756-2182 Work 606-756-2182 Work

## NOTIFICATION OF INTERRUPTION TO LARGE CUSTOMERS

- 1. Berry Corporation PHONE: 756-2131
- 2. Bracken County Nursing & Rehabilitation Center PHONE: 756-2156
- 3. AUGUSTA HIGH SCHOOL PHONE: 756-2105

## KEYS

## PERSONS WITH KEYS TO DISTRIBUTION REGULATOR STATIONS



ONE SHOULD NOT HESITATE TO BREAK THE LOCK IF THE CONDITIONS OF THE EMERGENCY WARRANT.

## **OPERATION OF SYSTEM VALVES**

A gas distribution system is a complex network of interconnected mains, fed by regulators, and having valves throughout for the purpose of shutting off or diverting the flow of gas. Pressure in the mains may vary from very few pounds to hundreds of pounds.

Before operating any valves a study should be made to determine the effect upon the entire system. Improper operation of a valve may create hazardous conditions or cause a hazardous condition to become worse.

Only properly authorized personnel shall operate valves. Fire, police, other officials or other outside individuals are not authorized to operate valves or to instruct other, including gas company personnel, to operate valves. (Except end use valve.)

## COLUMBIA GAS TRANSMISSION COMPANY PERSONNEL

606-724-2704

Personnel of supplier to be contacted in case of emergency.

1.	Forest Smith -	Mt. Olivet, Ky
	Office:	606-724-5712
	Home:	
2.	John Garrett -	Foster, Ky
	Office:	606-724-5712
	Home:	
3.	Cold Springs - Meter Station - manne	ed 24 hours.
	Phone:	606-441-8466
4.	Joey Cadwell -	Columbia Gas

Office:
# CITY OF AUGUSTA NATURAL GAS SYSTEM EMERGENCY PROCEDURES

# **Emergency Key Valve Operating**

Issued By: Mayor Mike Taylor

Purpose: To outline procedures for shut-down of entire system or sectionalizing of the system by operation of key valves within the system.

Reference: D.O.T. 192.745 - D.O.T. 192-747

General: (1) These Key Valves shall be closed only upon the authorization of the Superintendent or, in his absence, of the person in charge. This authorization shall be relayed to and acted upon by the person turning off the valve only directly from the person in charge of the shutd own.

(2) Each employee who might have to operate or follow these procedures shall familiarize themselves with these procedures. (All personnel.)

Key Valve Operating Procedures:

(1) Transmission Line

(2) See attached Schedule A (City General)

- (3) \_\_\_\_\_\_ (4) \_\_\_\_\_
- (5)\_\_\_\_\_

# CITY OF AUGUSTA NATURAL GAS SYSTEM EMERGENCY PROCEDURES

Subject:	Emergency Key Valve Operating				
Page 1 of 3					
Issued By:	Mayor Wendell High				
Purpose:	To outline procedures for shut-down of entire system or				
	sectionalizing of the system by operation of key valves within the				
	system.				
Reference:	D.O.T. 192.745 - D.O.T. 192-747				
General:	<ul><li>(1) These Key Valves shall be closed only upon the authorization of the Superintendent or, in his absence, of the person in charge.</li><li>This authorization shall be relayed to and acted upon by the person</li></ul>				
	turning off the valve only directly from the person in charge of the				
	shutd own.				
	(2) Each employee who might have to operate or follow these				
	procedures shall familiarize themselves with these procedures. (All				
	personnel.)				

Key Valve Locations:

To discontinue gas service to the entire city, shut off valves inside Regulator Station on KY # 8, also valves No. 18 & 22 on Fifth St.

# CITY OF AUGUSTA GAS SYSTEM EMERGENCY PROCEDURES

Emergency Key Valve Operating

Page 2 of 3

Subject:

Issued by: Mayor Wendell High

Key Valve Locations:

(continued)

and valve 17 & 19 on Fourth Street.

To discontinue service East of Regulator Station including the East side of Bracken Street, Frankfort Street from Second to Fourth, Sycamore Alley, all of Seminary & Hamilton, Second Street from Frankfort East & Fourth. From Frankfort East, Chapel Street, Fifth East of Regulator Station and all services in this area, shut off valves 19, 20, 22, 24, 25, 26, 29, and 30.

To discontinue service West of Regulator Station including West side of Bracken, all of Elizabeth Street, Main Street, Parkview, Park Street, Williams Street, Ferry Street, Riverside Drive, Second Street, from Frankfort West, Fourth Street from Frankfort West, Fifth Street West of Regulator Station and all services in this area, shut off valves 17, 18, 20 23, 26, 29, & 30.

# Page 3 of 3

\*See drawings - sheets 1 & 2 for valve locations

For any shut - off of certain sections see drawings noted above

#### **SCHEDULE A**

- 1. On Seminary at Chapel on East side. On Second Street at Seminary on East side.
- 2. On Fourth Street at Seminary on East side. On Fourth Street at Hamilton on South side.
- 3. On Fourth Street at Seminary on South side. On Fourth Street at Hamilton on South side.
- On Frankfort at Fourth Street on East side. On Seminary at Fourth Street West side. On Second Street at Seminary East side. On Frankfort Street at Second on North side. On Second at Frankfort on West side.
- 5. On Bracken Street at Fourth Street East side. On Frankfort Street at Fourth West side.
- 6. On Fourth Street at Bracken Street West side. At Fourth Street on North side of Tanyard Alley.
- On Fourth Street South side at Seminary. On Seminary on North West Side. On Fourth Street at Frankfort Street.
- On Fourth Street by Mrs. Wallace North's house two valves on South Side. On Fourth Street at Seminary, two valves on South side.
- 9. On Fifth Street from Regulator Station East. On Frankfort Street at Fourth Street on East Side.
- Fifth Street at Standard Station in alley between John White and Nancy Lyons on Fourth Street.
- Fifth Street at Elizabeth Street on South side. Fourth Street between Bracken Street and Elizabeth Street South side.
- Fourth Street at Elizabeth Street South side, two valves. Fourth Street in alley between Nancy Lyons and John White leading to Fifth.
- 13. Elizabeth Street on East side.
- North West comer of Elizabeth Street on North side of Riverside Drive. On Second Street and Frankfort Street on North East Comer. On North West corner of Fourth Street and Elizabeth Street.
- 15. Comer of Fourth Street and Main Street, North East comer.
- 16. Comer of Fourth Street and Main Street, North West comer.
- 17. Park Street and Fourth Street on North side. Park Street at Riverside Drive on South side.

- 18. North West comer on Riverside Drive at Williams Street. North West comer on Riverside Drive at Elizabeth Street. On Park Street at Riverside Drive, South side.
- North West comer of Fourth Street on Williams Street. North West comer of Riverside Drive at Williams Street.
- 20. South West comer of Fourth Street.

#### TRANSMISSION LINE FAILURE PROCEDURES

Purpose: To outline emergency procedures for interruptions to supplier's transmission lines;

Step 1: Immediately go to the Transmission line regulator and metering station off of Route # 10 and monitor pressure on the outside of the District's Metering Station.

**NOTE:** Caution shall be taken in the shutdown Metering Station as damage to the supplier's regulation and metering equipment can occur if these valves are shut down while the suppliers' equipment is pressurized.

# BREAK IN SUPPLIER'S TRANSMISSION LINE

If time permits, the person receiving notice of an interruption in the Columbia Gas Transmission Company's line should have the call transferred to the Gas Company Superintendent, or other management personnel, provided one of these parties can be reached. If not, the person receiving the call should obtain the following information:

- 1. Nature of interruption
- 2. Location
- 3. Minimum pressure expected at gate station

How fast pressure expected to drop and probable duration of minimum pressure
\*Location of Keys to Columbia Gas Transmission Corporation's Metering Station at
<u>Chatham, Kentucky.</u>

- 1. Paul Walter, R.R. # I,Mt. Olivet, 606-724-5708
- 2. <u>Columbia Gas, any employee</u>, 606-724-5712
- 3. Darian Blevins, Supervisor Cell

#### **INTERRUPTION IN SUPPLY (TRANSMISSION) LINE** (LINE FROM COLUMBIA'S METERING STATION TO CITY REGULATOR STATION)

An interruption in the supply (Transmission) line could be due to three causes:

- 1. Freezing of the regulators supplying the line,
- 2. A break in the line or,
- 3. Sabotage in the form of closed valves.

If determined the fault is with the regulators, steps should be taken to by-pass regulator and manually regulate pressure to keep system properly pressured while correcting regulator malfunction.

If the trouble is due to a leak or major line break the odds are someone will report by phone by the time it will be noticed by company personnel. The person calling will be able to give the location of the leak or break otherwise it will be necessary to patrol the line.

Emergency personnel will, at their discretion, close appropriate valves to isolate the section containing the break.

# FIRE OR EXPLOSION

# WHICH SHOULD PUT OUT OR SERVICE GATE STATION OR DISTRICT REGULATOR STATIONS

Fire or explosion, which should put out of service gate station or District Regulator Station.

In the event of fire or explosion in a district regulator station this procedure shall be followed:

- Step 1. Upon arrival at the scene, determine the source of escaping gas relief vent/regulation etc.
- Step 2. If possible: shut down regulator or relief valve without over pressure of distribution system.
- Step 3. If unable to shut down regulator or relief valve without danger to employees or public Designated Emergency valves for shut down or regulator station shall be closed. (A valve schematic showing valves and station follow this procedure.)
- Step 4. If complete shutdown of the distribution system is required Emergency Procedure No 6 Light up procedure shall be followed.

(A copy of the Light-up Procedure follows this procedure.)

#### **EMERGENCY CUSTOMER LIGHT-UP PROCEDURE**

<u>STEP 1</u>. After completing the shutdown of the Transmission Line valves; begin in the closing of all customer 1st stage regulator valves and meter stops. The customer shall be informed of the interruption in service and that it will be restored as soon as possible.

**NOTE:** A list of customers with stand-by facilities are on file in the office and shall be notified in an expedient manner, either by telephone or personal contact of any interruption in their service area.

STEP 2. After all customer meter stops are closed, personnel shall stand-by to reload the system as soon as pressures are adequate from the supplier.

<u>STEP 3.</u> If purging is necessary, the distribution system will be re-energized during the purging process. If the purging operation was not required, Step 4 will be to re-energize the system on a street by street basis.

STEP 4. Simultaneously or as each street is re-energized the light-up procedure shall begin.

FORMS:

- A. The office of Pipeline Safety Failure Report shall be completed and filed as soon as possible after the interruption.
- B. All other leak reports and repair forms to show the cause repair and test procedures used to restore service.

#### **RESPONDING TO GAS LEAK REPORTS**

The employee receiving a report of a gas leak will ask the person reporting leak the necessary questions to properly fill out the leak report form.

It is important that as much information as possible be obtained in order that the person receiving the call may properly evaluate the urgency of the call.

All reports of leaks on consumer premises will receive priority-with top priority going to a reported leak inside a building.

After the necessary questions have been asked and it has been determined that a hazardous gas leak exists inside a building, the customer should be advised to:

- 1. Evacuate the occupants of the structure to a safe distance.
- 2. Not operate any electric switches.
- 3. Do not use the phone
- 4. Extinguish all open flames do not use matches, cigarettes, or other possible sources or ignition.
- 5. Turn off gas meter if feasible.

Necessary personnel will be dispatched to the location of the reported leak to make an evaluation.

It is the responsibility of the supervisors to make sure the proper employees are

familiar with the procedure concerning gas leak calls.

A complete file of completed leak report forms will be kept along with any other pertinent records concerning the leak.

#### **TELEPHONE REPORTS TO DEPARTMENT OF TRANSPORTATION**

Gas leaks that are not intended by the operator and the require immediate or scheduled repair and test failures, by persons engaged in the transportation of gas must be reported to the office of Pipeline Safety by the person in charge or who so ever be designated, provided that the leak or test failure meets <u>one of the requirements listed below:</u>

- 1. Caused a death or a person injured requiring hospitalization.
- Required the taking of any segment of transmission pipeline out of service unless part of planned or routine operation.
- 3. Resulted in gas igniting unless part of planned or routine operation.
- 4. Caused total damage in excess of \$5,000 (Total of operator's damage and damage to others.)
- 5. Could have resulted in or was a significant incident to the operation, this being in the judgment of the operator even though it does not meet the criteria of the above requirements.

<u>Test Failures:</u> A break or rupture that occurs during a strength-proof testing of transmission lines that is of such magnitude as to require repair.

<u>Transmission Line:</u> Any line operating over 20% of S.M.Y.S. The telephone report to the D.O.T. should contain:

- 1. Name of Company
- 2. The location and time and date of incident
- 3. Fatalities and personal injures
- 4. All other significant known facts that are relevant to the cause of the leak or extent of the damages.

(Describe accident)

5. Who in management should be contacted upon arrival at accident site. The telephonic report, if required, should be made at the <u>earliest practicable moment</u> following discovery.

Call 202-426-0700 FEDERAL DEPARTMENT OF TRANSPORTATION

PUBLIC SERVICE COMMISSION

OFFICE HOURS: (502) 564-3940

AFTER HOURS: (502) 564-7815

# **GAS LEAK OUTSIDE**

The first gas company employee to arrive at the scene of a gas leak shall take every corrective action necessary to protect life and property from danger.

The employee shall:

- 1. Assess danger to public, surrounding building occupants, and property
- 2. If necessary, evacuate and/or assist all persons to safety
- 3. If necessary, notify Fire and Police Departments and ambulances
- 4. Notify supervisor and/or other responsible persons
- 5. If necessary, blockade the area. (Police help may be needed.)

It will be the responsibility of the person in charge to:

- 1. Set up communication
- 2. Coordinate the operation
- Make all decisions concerning emergency valves, isolating areas and the use of emergency equipment
- 4. Implement the check list

The above describes a catastrophic condition, an extremely hazardous condition, or a condition requiring major pressure changes and the re-routing of gas. Small routine leaks will normally be handled in the field.

It will be the responsibility of the person in charge of the operation and repair to give <u>careful consideration</u> to any action taken to assure that nothing is done which may endanger life or property, create another emergency or unnecessarily disrupt service.

A Comprehensive report shall be prepared for each incident. This report shall contain:

- 1. The location and time and date of the incident
- 2. Fatalities and personal injuries
- All other significant known facts that is relevant to the cause of the leak or extent of the damages. (Describe incident)

A complete record of the report shall be kept on file.

# CHECK LIST (MAJOR DISASTER)

- 1. Has the Fire Department been called?
- 2. Have persons been evacuated and area blockaded?
- 3. Has the Police Department been notified?
- 4. Has the repair crew been notified?
- 5. Has the company call list been executed?
- 6. Has communication been called?
- 7. Has outside help been requested?
- 8. Have ambulances been called?
- 9. Has the leak been shut off or brought under control?
- 10. Has the Civil Defense been notified?
- 11. Have the emergency valves or proper valves to shut down or re-route gas been identified and located?
- 12. If an area has been cut off from a supply of gas, has the individual service or each customers been cut off?
- 13. Is the situation under control and has the possibility of re-occurrence been eliminated?
- 14. Has the surrounding area been probed for the possibility of further leakage?
- 15. Has the Telephonic Report to OPS/DOT been made?
- 16. Has the radio and T.V. been given instructions?

# GASLEAK: HOUSE and/or BUILDING

This first gas company employee to arrive at the scene of a gas leak shall take every corrective action necessary to protect life and property from danger. (DO NOT RING THE

#### **DOOR BELL.)**

Immediately after entering house, sample air in rooms, basement or crawl space with a gas indicator. If the presence of a dangerous concentration of gas in the house is indicated - 40% on L.E.L. (Lower Explosive Limit) 2% on percentage (%) scale proceed as follows:

- 1. Evaluate the house immediately
- 2. <u>DO NOT</u> operate any electrical switches
- 3. <u>DO NOT</u> use phone
- 4. Shut off gas meter valve
- 5. Open doors and windows if below 15%
- 6. Probe outside house with rod and gas indicator for gas in ground outside building; check water meter and available openings
- 7. If ground is gas free outside house and after house is properly aired out, turn on meter valve and check all gas piping and appliances for leaks. Use meter test hand and soap water <u>be sure</u> meter test hand is operative. Check walls and openings with gas indicator.
- 8. Repair leak or notify customer to correct the situation, turn off, lock meter and leave off.
- 9. Return occupants to house, but only after you are positively sure it is safe to do so.

#### **RESTORATION OF SERVICE DUE TO OUTAGE**

When the supply of gas has been cut off to an area, no gas will be turned on to the affected area until the individual service to each customer has been turned off. A house to house operation is mandatory. The individual service of each customer must be turned off, either at the meter or at the meter or at service valves. If the service valve cannot be located, the service line must be uncovered; a service valve installed and cut off. In restoring service to an affected area all gas piping and meters must be purged and appliances re-lit. In the event a customer is not at home, a card must be left in a conspicuous location requesting the customer call the gas company to arrange for restoration of service.

The person in charge is to coordinate this operation and be responsible for same. A complete record of the incident, with drawings, etc. shall be kept on file.

#### NOTES

- 1. If gas is found in the ground outside the building, call your supervisor immediately after performing steps 1, 2, 3, 4, and 5 above. Open water meter boxes and available openings to allow gas to escape to the atmosphere. Care must be taken to make these openings safe for traffic and to avoid ignition.
- 2. If ever in doubt call your supervisor.(Phone outside of contaminated area.)
- 3. If gas is found in the ground outside the building, be sure to check neighboring buildings even if they have no gas service. If there is a possibility of gas from a leak entering premises that are closed, notify police to request a forcible entry to the premises.
- Do not rely on your sense of smell to determine if gas is present in a building or in the ground. <u>Use instruments provided to you for this use.</u>
- 5. Electric meters may be removed to shut down all lights and electric appliances in the house. Do not attempt this if the electric meter is outside <u>the house or in an area of gas concentration</u>. Houses or commercial buildings where no gas is present at the master fuse panel, the switch or switches may be turned off. However, it is <u>imperative</u> that the combustible gas indicator shows that <u>no gas</u> is present in or around the area of the panel.

- 6. If it is-determined it is unsafe to enter the basement of the house, knock out the basement windows from the outside to air out basement.
- 7. After all gas has been cleared and it has been determined it is safe to reset the electric meter, call the electric company to reset and seal the electric meter.
- 8. When checking a house or building <u>consider 40% on L.E.L. (Lower Explosive Limits)</u> <u>scale or 2% on the 100% scales of a combustible gas indicator to be dangerous. This</u> <u>reading should be in free air.</u>
- 9. Be sure your gas indicating instrument is set on the proper scale and that all connections on the sampling tube are tight.
- 10. When sampling air in a building have your instrument set on the L.E.L. scale. Remember that natural gas is lighter than air.
- 11. When sampling in probe holes in the ground have your instrument set on 0-100% scale, if a very low reading is obtained (2% or less) then the instrument may be set to the L.E.L. scale. (This applies only to the multi scale instruments.)

# EMERGENCY EQUIPMENT INSPECITON RECORD

1.	VALVE KEYS -				
	Service Truck	Yes	Х	No	
	Meter Shop Truck	Yes	х	No	
	COMMENTS:				
2.	MAPS				
	Distribution Maps - Office				
		Yes	Х	No	
	COMMENTS:				
	·····				
3.	SHUT OFF TOOLS				
	Shop:	Yes	х	No	
	Truck:	Yes	х	No	
	COMMENTS:				
4.	SHOVELS - Leak Repair Equipment (supply of 1 W' thru 6" repair clamps available)				
	Jack Hammer - Backhoe				
	COMMENTS:				
	SIGNED BY:				

#### EMERGENCY EQUIPMENT

<u>Jeff Mofford, Supt.</u> Shall be responsible for the adequacy, availability and condition of emergency equipment.

# LOCATION OF EQUIPMENT

VALVE KEYS - Set of valve keys are on all trucks and in company shop. MAPS - Maps of the distribution system are in City Clerk's Office.

SERVICE LINE & TAP MAPS - City Clerk's Office.

SELF CONTAINED BREATHING EQUIPMENT - Carried in service truck. SHOVELS,

LEAK REPAIR EQUIPMENT, JACK HAMMER - Company service truck and company shop.

A check of emergency equipment will be made every 3 months and an inspection report filed.

# MUTUAL AID GAS SYSTEMS:

1.	Pendleton County Gas 400 Main Street Falmouth Kentucky 41040	Phone: 606 654 6964
	Fainfouri, Kentucky 41040	Filone. 000-034-0904
2.	Columbia Gas Trans. Corp	
	Mt. Olivet, Kentucky 41024	Phone: 606-724-5712
	-	Night: 606-724-5731
		Night: 606-724-5470
3.	Columbia Gas of Kentucky	
	Maysville, Kentucky 41056	Phone: 606-564-3472

# **EMPLOYEE TRAINING**

Periodically an employee meeting shall be scheduled to discuss and train employees on emergency procedures. This training shall be coordinated by the City Superintendent. The employee training and discussions shall include, but not limited to, the following:

- 1. Location of Emergency Manual
- 2. Review of Emergency Manual Procedures. (Employee responsibility)
- 3. Review the location and use of emergency equipment
- 4. Review the locations and use of the following:
  - A. System maps
  - B. Main records
  - c. Service records
  - D. Valve records
  - E. Regulator station schematics
  - F. Properties of natural gas
- 5. Take a hypothetical emergency situation and, step by step, review the action to be taken. (Include public officials, firearms, police and contractors, etc.)
- 6. Record keeping

Records shall be kept on file of attendance and items discussed at each meeting.

#### **PUBLIC EDUCATION**

There shall be a continuing education program to enable customers, the public, appropriate governmental organizations, and persons engaged in excavation related activities to recognize a gas emergency for the purpose of reporting it to the gas company.

The program material shall include, but not limited to:

- 1. Information about gas properties
- 2. Recognition of gas odors
- 3. What to do and not to do when there is a strong gas odor
- 4. Notification of the gas company prior to making excavations or excavation related activities. (No phone contaminated area)
- 5. Gas company phone number and after hours numbers to call for information or to report an emergency

This information may be conveyed to the public by:

- 1. Radio and television
- 2. Newspaper
- 3. Meetings
- 4. Bill stuffers
- 5. Mailings
- 6. Hand-outs

A record shall be maintained of the public education program and related activities.

# LIAISON WITH PUBLIC OFFICIALS

Liaison shall be established with fire, police, civil defense, and medical officials with respect to emergency procedures.

Set up means of communications.

Meetings shall be held with the appropriate officials to acquaint them with the company capabilities and procedures respecting gas emergencies and to learn the capability and responsibility of each government organization that may respond to an emergency.

Training sessions, as required, may be scheduled with fire, police, civil defense and medical organizations to train them in the proper procedures to follow during a gas emergency. Participation in fire, police, and civil defense meeting, both on local and state levels. The General Superintendent, or his designate, will implement and coordinate this program. A record shall be filed of all meetings, training sessions and other related activities.

# **NOTES ON INFORMATION GIVEN TO THE NEWS MEDIA**

In case of an emergency, should any employee receive requests for information from TV stations, radio stations, newspaper reporters, etc., refer them to the General Superintendent, or in his absence his assistant. Explain that you do not have the authority to provide information.

The following suggested plan of Public Announcement may be as followed:

- 1. Allay any unfounded fears
- 2. Do not make reckless comments
- 3. Tell precisely what the public can do to help
- 4. Tell specifically what the gas company is doing about it
- 5. Give the facts to prevent baseless rumors
- 6. Repeat most encouraging view of situation in absence of facts

# **ACCIDENT INVESTIGATION**

Each operator shall establish procedures for analyzing accidents and failures including the following:

- 1. Investigation of all company facilities to determine if accident was gas related.
  - A. Leak Survey
  - B. Pressure tests of piping
  - c. Meter and regulator check
  - D. Questioning persons on the scene
  - E. Examining Burn and Debris patterns
  - F. Odorization Level
  - G. Recording Meter Readings
  - H. Weather conditions
- 2. Procedures to follow if accident was gas related.
  - A. Selection of samples of the failed facility or equipment for laboratory examination for the purpose of determining the causes of the failure and minimizing the possibility of recurrence.
  - B. Notify insurance company

# CITY OF AUGUSTA

# **OPERATION AND MAINTENANCE PROGRAM**

The following items must be accomplished to comply with DOT regulation and have a safe system that can be insured.

- 1) Valve inspection and maintenance
  - A. Service and operate transmission and distribution valves and boxes yearly
  - B. Service and operate curb stops and boxes on 5 year frequency
  - C. Record inspection and have on file
- 2) Pressure limiting and regulator inspection
  - A. Regulator inspect test repair yearly
  - B. Indicating and recording gauges yearly
  - C. Record inspection, repair and have on file
- 3) Relief valves, test and inspect
  - A. Distribution relief check yearly
  - B. Commercial and industrial relief yearly
  - C. Record inspection and repair and have on file
- 4) Leak Surveys
  - A. Business district and residential yearly
  - B. Service lines yearly
  - C. Transmission line every 6 months
  - D. Record survey findings and repair and keep on file

- 5) Gas line patrolling
  - A. Distribution and transmission every 6 months
  - B. Record findings and repair leak and record
- 6) Customer meters
  - A. History card for all meters
  - B. Set up files and keep current
- 7) Frequency of meter tests
  - A. Up to 500 cu. Feet 10 years
  - B. 500-1500 cu. Feet 5 years
  - C. 1500 and up annually
- 8) Cathodic Testing
  - A. Test station
  - B. Exposed pipe
  - C. Test yearly; install new anodes and record results before and after
- 9) Abandoned lines and services
  - A. Each facility abandoned in place, or expect when undergoing maintenance each line not subject to gas pressure, must be disconnected from all sources and supplies of gas, purged of gas and the ends sealed; however, the line need not be purged when the volume of gas is so small that there is no potential hazard.
  - B. If air is used for purging the operator shall ensure that a combustible mixture is not present after purging.