

# STANDARD INSPECTION REPORT OF A GAS DISTRIBUTION OPERATOR COMPREHENSIVE FIELD AUDIT

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If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

<b>Operator: AMEREN ILLINOIS COMPANY</b>	Operator ID#: 32513
<b>Inspection Date(s): 10/28/2014, 10/29/2014, 10/30/2014</b>	Man Days: 3
<b>Inspection Unit: Mattoon</b>	
<b>Location of Audit: Mattoon</b>	
<b>Exit Meeting Contact: Robert Roth</b>	
<b>Inspection Type: Standard Inspection - Field Audit</b>	
<b>Pipeline Safety Representative(s): Charles Gribbins</b>	
<b>Company Representative to Receive Report: Michael Fuller</b>	
<b>Company Representative's Email Address: mfuller2@ameren.com</b>	

<b>Headquarters Address Information:</b>	300 Liberty Peoria, IL 61602 Emergency Phone#: (800) 755-5000 Fax#:	
<b>Official or Mayor's Name:</b>	Ron Pate Phone#: (217) 424-6518 Email:	
<b>Inspection Contact(s)</b>	<b>Title</b>	<b>Phone No.</b>
Robert Roth	Senior Quality Assurance Consultant	

CRITERIA FOR AREA SELECTED	Status
Higher population density	No
Age of system	No
Type of piping	Yes
Operating characteristics	Yes
Performance history of system	Yes
Manageable sized area should be chosen	Yes
MAPS OF FACILITIES INSPECTED	Status
[192.605(b)(3)] Were system maps provided as part of this audit?	Yes
[192.603(b)] Were system mapping used during this audit up to date?	Satisfactory

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<b>CUSTOMER METER &amp; REGULATOR</b>		<b>Status</b>
<b><u>Category Comment:</u></b>		
<i>Customer meters were checked and inspected at various locations through the atlas pages chosen for the Comprehensive Audit on the following streets, Shelby Avenue, Champaign Avenue, Richmond Avenue, Prairie Avenue, Pine Ave, Westview Drive and Moultrie Avenue.</i>		
[192.357(a)]	Is the customer meter and regulator installed to minimize anticipated stresses upon connecting piping?	<b>Satisfactory</b>
[192.353(a)]	Is the customer meter and regulator installed in a readily accessible location and protected from corrosion and other damage, including if installed outside a building, vehicular damage that may be anticipated?	<b>Satisfactory</b>
[192.355(b)(1)]	Is the customer regulator vent rain and insect resistant?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		
<i>At one location while inspecting the vent screen the screen fell apart and the leak surveyor replaced it on site.</i>		
[192.355(b)(2)]	Is the customer regulator vent located where gas from the vent escapes freely into the atmosphere and away from building openings?	<b>Satisfactory</b>
[192.355(b)(3)]	Is the vent protected from damage caused by submergence in areas of flooding?	<b>Not Applicable</b>
<b><u>General Comment:</u></b>		
<i>The meters are not in an area prone to flooding.</i>		
[192.357(d)]	Is a customer regulator that might release gas vented to the outside atmosphere?	<b>Satisfactory</b>
[192.359(a)]	Is the meter operating pressure within the allowable limits of the meter case rating?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		
<i>The meter cases have an operating pressure of 5 pounds.</i>		
[192.365(a)]	Is the service line valve upstream of the regulator or meter?	<b>Satisfactory</b>
[192.365(c)]	Is the service line located in a curb box or stand pipe that allows for ready operation?	<b>Not Applicable</b>
<b><u>General Comment:</u></b>		
<i>There were no curb valve boxes located in the portion of the distribution inspected during the field audit.</i>		
<b>LEAK SURVEY</b>		<b>Status</b>
[192.723]	Was a leak survey conducted using operator leak detection survey equipment and system maps?	<b>Satisfactory</b>
[192.603(b)]	Was the operator's equipment calibrated as required?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		
<i>A Southern Cross Flame Ionization Unit was used during the Field Audit, Unit Number 8094 and was last calibrated on 10-10-14. A bump test was performed before starting the Leak survey. The leak survey was conducted on the 2700 and 2800 blocks of Shelby Avenue of Mattoon. Issues were found at the following locations: 2705 Shelby coating issues on the riser, 2713 Shelby coating issues on the riser, 2720 Shelby coating issues on the risers, 2800 Shelby coating issues and cracked insulator on wedge seal, 2804 Shelby coating issues, 2808 Shelby leak on meter set at meter spuds, the leak surveyor tightened the meter spuds before leaving the location. 2809 Shelby coating issues on the riser, Two risers were found with no meters attached the leak surveyor wrote up work orders to have these risers remove, the location of the risers were 2812 &amp; 2816 Shelby Avenue, Mattoon. A leak was found at 2820 Shelby Avenue on the meter at the connection of the automated meter reader.</i>		

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<b>CATHODIC PROTECTION</b>		<b>Status</b>
[192.463(a)]	Is the applicable cathodic protection criteria contained in Appendix D of this part being followed?	<b>Satisfactory</b>
[192.465(a)]	Were pipe to soil readings taken?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		
<i>Pipe to soil readings were taken at the following locations.            3325 Shelby Avenue, -1.198            3305 Champaign Avenue -.807 isolated service            3301 Champaign Avenue -1.368 isolated service drive in anode pulled up, Mike Lehmkuhl drove anode back into correct depth.            2600 Champaign Avenue -1.096            2512 Champaign Avenue -1.210            2313 Shelby Avenue -.89            2609 Moultrie Avenue -1.179            2608 Moultrie Avenue -1.189 riser needs wrapped            3316 Richmond Avenue -1.182            3320 Richmond Avenue -1.142            3316 Prairie Avenue -1.139            3213 Prairie Avenue -1.120            3017 Pine Avenue -1.253 exposed pipe needs wrapped            3016 Pine Avenue -.311 riser needs wrapped            3020 Pine Avenue -.117 smell of gas, called in leak investigation, leak found on meter AMR (Automated Meter Reader)            122 Westview Drive -1.318            125 Westview Drive -1.309            132 Westview Drive -1.304 smell of gas, called in leak investigation, leak found on AMR (Automated Meter Reader)</i>		
[192.465(b)]	Were rectifier installations inspected?	<b>Not Applicable</b>
<b><u>General Comment:</u></b>		
<i>There were no rectifiers associated with this distribution system.</i>		
[192.465(a)]	Were isolated mains/services tested?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		
<i>There were isolated services associated with section of the distribution system.</i>		
[192.465(c)]	Were critical/non critical bonds tested?	<b>Not Applicable</b>
<b><u>General Comment:</u></b>		
<i>There were no bonds associated with this inspection.</i>		
[192.467(a)]	Is electrical isolation provided by use of insulated meter spud, valve, union, or flange?	<b>Satisfactory</b>
[192.467(c)]	Were casing installations tested for electrical isolation?	<b>Not Applicable</b>
<b><u>General Comment:</u></b>		
<i>There were no casings associated with this inspection.</i>		
[192.479(a)]	Is the above ground piping coated or painted as required?	<b>Satisfactory</b>
[192.479(c)]	Is the pipeline free of corrosion or pitting?	<b>Not Applicable</b>

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<b><u>General Comment:</u></b>		
<i>Several service lines were found to have active corrosion and coating damage. These findings were recorded on the previous performed leak survey, Staff confirmed the findings during the comprehensive field audit.</i>		
<b>MARKING OF FACILITIES</b>		<b>Status</b>
<b><u>Category Comment:</u></b>		
<i>There were no line markers found in the distribution system.</i>		
[192.707(a)(1)]	Are line markers placed and maintained as close as practical over each buried main and transmission line located at each crossing of a public road and railroad?	<b>Not Applicable</b>
[192.707(a)(2)]	Are line markers placed and maintained as close as practical over each buried main and transmission line located wherever necessary to identify the location of the transmission line or main to reduce the possibility of damage or interference?	<b>Not Applicable</b>
[192.707(c)]	Are line markers placed and maintained as close as practical over each buried main and transmission line located above ground?	<b>Not Applicable</b>
[192.707(d)(1)]	Do the operator's line markers contain the following information: The following must be written legibly on a background of sharply contrasting color on each line marker: The word "Warning," "Caution," or "Danger" followed by the words "Gas (or name of gas transported) Pipeline" all of which, except for markers in heavily developed urban areas, must be in letters at least 1 inch (25 millimeters) high with ¼ inch (6.4 millimeters) stroke?	<b>Not Applicable</b>
[192.707(d)(2)]	Do the operator's line markers contain the following information: The following must be written legibly on a background of sharply contrasting color on each line marker: The name and phone number (including area code) of the operator where the operator can be reached at all times.	<b>Not Applicable</b>
<b>ODORIZATION OF GAS</b>		<b>Status</b>
<b><u>Category Comment:</u></b>		
<i>Staff did not conduct and odorant test in this area.</i>		
[192.625(a)]	Was the odor intensity level readily detectable at or below 1/5th LEL?	<b>Not Checked</b>
[192.625(f)]	Was the operator's equipment calibrated as required?	<b>Not Checked</b>
<b>PRESSURE LIMITING AND REGULATING STATIONS</b>		<b>Status</b>
[192.741]	Was the chart recorder calibration verified, if applicable?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		
<i>Staff inspected the ERX that was associated with the pressure system that was feeding the section of distribution that being inspected.</i>		
[192.603(b)]	Were the types of regulators and pressure relief devices verified?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		

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The following Regulating stations were inspected:

Station ID 300032, 31Street & Western Avenue, Fisher 99 Regulators and Fisher 63 EG Relief Valve.

Station ID 300028, 22nd Street & Richmond, Fisher 99 Regulators and Fisher 63 FV Relief Valve.

Station ID 300029, 24th Street & Western Avenue, Fisher 99 Regulators and Fisher 63 FV Relief Valve.

Station ID 300031, 31st Street & Cedar, Fisher 99 Regulators and Fisher 63 FV Relief Valve.

Station ID 300030, 29th Street & Richmond Avenue, Fisher 99 Regulators and Fisher 63 FV Relief Valve.

[192.181]	Were the valves associated with regulator stations/vaults visually inspected to be readily accessible?	<b>Satisfactory</b>
<b>General Comment:</b>		
<p>The following station valves were inspected:            Station 300032, Valves 300D039 &amp; 300D047            Station 300028, Valves 300D031 &amp; 300D034            Station 300029 Valves 300D080 &amp; 300D038            Station 300031 Valves 300D048 &amp; 300D041            Station 300030 Valves 300D072 &amp; 300D045            The following emergency valves were inspected at the following location:            31st Street and Richmond Avenue, Valve 300D070, 300D069, 300D026            All valve locations were found to be readily accessible.</p>		
[192.707(c)]	Is station marked properly?	<b>Satisfactory</b>
[192.615]	Was the MAOP of the downstream system verified?	<b>Satisfactory</b>
<b>General Comment:</b>		
Staff reviewed the documentation for the systems to verify the correct MAOP of the downstream systems.		
[192.739(a)]	Was the most recent regulator station inspection data reviewed?	<b>Satisfactory</b>
<b>General Comment:</b>		
Staff reviewed the documentation to verify the correct information prior to the inspection.		
[192.739(a)]	Was the set point and lockup pressure from the most recent inspection data reviewed?	<b>Satisfactory</b>
<b>General Comment:</b>		
Staff reviewed the documentation to verify the correct information prior to the inspection		
[192.739(a)(3)]	Was the set point field verified?	<b>Satisfactory</b>
<b>General Comment:</b>		
Staff reviewed the documentation to verify the correct information prior to the inspection		
[192.317(b)]	Is each above ground transmission line or main protected from accidental damage by vehicular traffic or other similar causes?	<b>Not Applicable</b>
<b>General Comment:</b>		
All the pressure regulating stations were in buried vaults.		
[192.199(d)]	Are the supports for the pressure relief or pressure limiting devices made of noncombustible material?	<b>Satisfactory</b>
[192.199(e)]	Are the pressure relief or pressure limiting device discharge stacks, vents, or outlet ports designed to prevent accumulation of water, ice, or snow, and located where gas can be discharged into the atmosphere without undue hazard?	<b>Satisfactory</b>

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[192.199(h)]	Was each valve, designed to isolate the system under protection from its source of pressure, secured to prevent unauthorized operation of any stop valve that will make the pressure relief valve or pressure limiting device inoperative?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		
<p><i>The valves for the station were all located underground in valve boxes.</i>  <i>The following station valves were inspected:</i>  <i>Station 300032, Valves 300D039 &amp; 300D047</i>  <i>Station 300028, Valves 300D031 &amp; 300D034</i>  <i>Station 300029 Valves 300D080 &amp; 300D038</i>  <i>Station 300031 Valves 300D048 &amp; 300D041</i>  <i>Station 300030 Valves 300D072 &amp; 300D045</i></p>		
<b>VALVE MAINTENANCE</b>		<b>Status</b>
Determine if estimated number of customers affected by valve closure meets operator maximum allowed during an outage.		<b>Yes</b>
[192.747(a)]	Were the valves inspected accessible?	<b>Satisfactory</b>
[192.747(a)]	Was the condition of the valve boxes inspected?	<b>Satisfactory</b>
[192.603(b)]	Are valves recorded correctly on maps and inspection forms/screens?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		
<p><i>The following emergency valves were inspected at the following location:</i>  <i>31st Street and Richmond Avenue, Valve 300D070, 300D069, 300D026</i>  <i>All valve locations were found to be readily accessible.</i></p>		

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