

STANDARD INSPECTION REPORT OF A GAS OPERATOR FIELD AUDIT

FIELD AUDIT

Unless otherwise noted, all code references are to 49CFR Part 192.
If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

Operator: WHITE COUNTY HOUSING AUTHORITY	Operator ID#: 39072
Inspection Date(s): 1/6/2015	Man Days: 1
Inspection Unit: WHITE COUNTY HOUSING AUTHORITY	
Location of Audit: Norris City, Crossville, Grayville	
Exit Meeting Contact: Mike Wendling	
Inspection Type: Standard Inspection - Field Audit	
Pipeline Safety Representative(s): Jim Watts	
Company Representative to Receive Report: Mike Wendling	
Company Representative's Email Address: mwending@usdi.us	

Headquarters Address Information:	1927 Miller Drive Olney, IL 62450 Emergency Phone#: (618) 392-5502 Fax#:	
Official or Mayor's Name:	Darin Houchin Phone#: (618) 392-5502 Email:	
Inspection Contact(s)	Title	Phone No.
Mike Wendling	Engineer USDI	(618) 392-5502

CUSTOMER METER & REGULATOR		Status
[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?	Satisfactory
<u>General Comment:</u> <i>Risers and meter installations where meters were present were observed located in a readily accessible locations. They were also protected against corrosion and damage. The locations inspected were the same locations as recorded in the corrosion section for pipe to soil potential readings.</i>		
[192.355(b)(1)]	Is the customer regulator vent rain and insect resistant?	Satisfactory
<u>General Comment:</u> <i>The master meter regulator vents were rain and insect resistant. There are no service regulators located in the White County systems. The systems are supplied gas via the master meter set at inches of water column.</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?	Not Applicable

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<u>General Comment:</u>		
<i>There are no service regulators located in the White County Housing Systems.</i>		
[192.355(b)(3)]	Is the vent protected from damage caused by submergence in areas of flooding?	Not Applicable
<u>General Comment:</u>		
<i>There are no meter installations that are located in areas subject to flooding.</i>		
[192.357(a)]	Is the customer meter and regulator installed to minimize anticipated stresses upon connecting piping?	Satisfactory
<u>General Comment:</u>		
<i>The meter installations inspected were not observed with any piping stresses.</i>		
[192.357(d)]	Is a customer regulator that might release gas vented to the outside atmosphere?	Not Applicable
<u>General Comment:</u>		
<i>The meter installations inspected at the Norris City, Grayville and Crossville sites did not have service regulators.</i>		
[192.359(a)]	Is the meter operating pressure within the allowable limits of the meter case rating?	Satisfactory
<u>General Comment:</u>		
<i>Where meters were present, they were observed being marked indicating a meter case rating of 5 to 25 psig.</i>		
[192.365(a)]	Is the service line valve upstream of the regulator or meter?	Satisfactory
<u>General Comment:</u>		
<i>All risers inspected had service line valves located upstream of the meter or above ground downstream piping where meter were not present.</i>		
[192.365(c)]	Is the underground service line valve located in a curb box or standpipe that allows for ready operation?	Not Applicable
<u>General Comment:</u>		
<i>There are no below ground valves located on the service lines in the White County Housing sites.</i>		
[192.727(d)][192.727(d)]	When service to the customer has been discontinued has the proper method been utilized to prevent unauthorized usage?	Not Checked
<u>General Comment:</u>		
<i>Staff observed no installations where service to a customer had been discontinued.</i>		
CATHODIC PROTECTION		Status
[192.463(a)]	Is the applicable cathodic protection criteria contained in Appendix D of this part being followed?	Unsatisfactory
<u>Issue Comment:</u>		
<i>During pipe to soil testing conducted during the field audit, Staff observed low potential levels on the service line to Unit 12B at the Boyd Street Site B located in Norris City, Illinois. The service had an initial potential of -.490 volts. The anode wire was observed having been broken and was reconnected. After reconnecting, we came back approximately 30 minutes later and observed the potential level had polarized to -.967 volts. The wire will require a permanent</i>		

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repair to prevent further damage.

See the Pipeline Safety Report for the remaining issues identified where low potentials were observed below the required -.850 volts.

Review of the USDI Corrosion survey report conducted in July 2014 indicates no low potentials were reported at these locations.

[192.465(a)]	Were pipe to soil readings taken?	Satisfactory
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General Comment:

As indicated above four indications of low potentials were identified during the field audit. The remainder of the testing performed indicates adequate levels of protection are being applied.

The White County sites were tested as follows and had potentials above -.850 volts with the exception of the low potentials defined and addressed as issues under 192.463.

Norris City
 Site A East & Locust Street - Units 1-7 had potentials of -1.2 to -1.1 volts. The master meter outlet riser read -1.26 volts.

Site B Powell Street - Units 9-1 had potentials of -1.3 with a low potential at Unit 11B of -.490 volts. The master meter outlet riser read -1.31 volts.
 Site B Boyd Street - Units 12 A-B were observed at low with a potential of -.506 volts until we found a broken anode wire and after reconnecting the wire the system polarized to -.967 volts after approximately 30 minutes. This will require further repairs to complete a permanent repair. The master meter indicated the same potential levels.

Site C Eubanks Street - Units 13-16 had potentials of -1.1 to -1.2 volts. The master meter outlet riser read -1.23 volts.

Site D East of East Street - Units 19-20, 22-23 and 25-26 had potentials of -1.09 to -1.29 volts. The master meter -1.29 volts.

Crossville
 Site A 4th Street - Units 1-6 and the Office had potential levels of -1.3 volts. The master meter outlet riser read -1.23 volts.

Site B Rudolph Street - Units 9-15 had potentials of -1.25 to -1.37 volts. The master meter outlet riser read -1.37 volts.

Grayville
 Site A Mill and Marten - Units 201 A&B -1.33 volts, 213 A&B -1.30 volts, 217 Shop/ Community Building -1.31 volts, 301 A&B -1.32 volts, 318 A-H -1.24 to -1.36 volts. The Master Meter outlet riser read -1.33 volts.

Site B South and Main - Units 310 A&B -1.36, 109 A&B and 111 A&B had anodeless risers. The Master Meter outlet riser read -1.38 volts.

Site C 3rd and Marten - Units 802 A&B -1.07 volts, 812 A&B -1.27 volts, 420 A&B -1.03 418 A&B -.93 volts 426 -1.02 volts and 424 -1.03 volts. These units also had separate isolated services that supply the kitchens of these slab home units and had potentials of -1.27 to -1.3 volts. The Master meter outlet riser read -1.08 volts.

Site D Water Street - Units 515 A&B -1.31 volts, 700 A&B -1.31 volts, 706 A&B -1.32 volts, 516 A&B -1.23 volts and 510 A&B -1.28 volts. Master Meter outlet -1.31 volts. These units also had isolated services that supplied the kitchen area and read -1.31 to -1.40 with two that read -.311 volts at 700 A and -366 volts at 510 A which are addressed as issues above under protective levels.

[192.465(b)]	Were rectifier installations inspected?	Not Applicable
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General Comment:

There are no rectifiers utilized to protect White County Housing facilities against corrosion.

[192.465(a)]	Were isolated mains/services tested?	Satisfactory
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General Comment:

All coated and wrapped steel piping is tested annually for levels of protection. No piping is tested on a less frequent interval. There are isolated services in the White County Systems but are tested annually to determine the level of protection.

[192.465(c)]	Were critical/non critical bonds tested?	Not Applicable
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<u>General Comment:</u>		
<i>There are no non-critical or critical bonds in the White County systems.</i>		
[192.467(a)]	Is electrical isolation provided by use of insulated meter spud, valve, union, or flange?	Satisfactory
<u>General Comment:</u>		
<i>Insulated unions are utilized at the meter installations to isolate the distribution system from the downstream piping.</i>		
[192.467(c)]	Were casings installations tested for electrical isolation?	Not Applicable
<u>General Comment:</u>		
<i>There are no casing installations in the White County Housing systems.</i>		
[192.479(a)]	Is the above ground piping coated or painted as required?	Satisfactory
<u>Issue Comment:</u>		
<i>Risers needing corrective actions due to coating or paint deterioration were located at 5A-b and the outlet riser at the master meter at Site A Norris City, Illinois. See the Pipeline Safety Report for other risers identified as issues that were observed needing corrective actions due to coating damage or paint issues.</i>		
[192.479(c)]	Is the pipeline free of corrosion or pitting?	Satisfactory
<u>General Comment:</u>		
<i>No corrosion resulting in pitting was observed during the field audit.</i>		
DAMAGE PREVENTION		Status
[192.614]	Does the operator have a valid notification of planned excavation activities?	Satisfactory
<u>General Comment:</u>		
<i>Julie Ticket A003231612-00A with an address of 207 N Powell, Norris City, Illinois was received on 11/19/14 for installation of new mail box by the White County Housing Authority. The locate request was completed by USDI 11/20/2014 and was recorded as clear. Staff observed a flag had been placed in area of proposed excavation and was marked as clear. The completed JULIE ticket indicated the excavation did not involve housing piping. Staff confirmed this by use of site map that includes the location of the gas piping. The piping for the housing units runs behind the units of which the mail box was to be placed in the front of the unit confirming the proposed excavation was clear.</i>		
[265.40(a)]	Did the operator complete the locating activities in the specified timeframe?	Satisfactory
<u>General Comment:</u>		
<i>Julie Ticket A003231612-00A with an address of 207 N Powell, Norris City, Illinois was received on 11/19/14 for installation of new mail box by the White County Housing Authority. The locate request was completed by USDI 11/20/2014 and was recorded as clear.</i>		
[192.614(c)(5)]	Were temporary markings made in accordance with the operator's Operation and Maintenance Manual?	Satisfactory
<u>General Comment:</u>		
<i>A flag was observed having been placed in the area of the proposed excavation indicating the excavation was clear of the housing authority gas piping.</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	Not Applicable

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	railroad?	
General Comment:		
<i>Line markers are not required on master meter facilities where a damage prevention program is in place.</i>		
[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?	Not Applicable
General Comment:		
<i>Line markers are not required on master meter facilities where a damage prevention program is in place.</i>		
[192.707(c)]	Are line markers placed and maintained as close as practical over each main and transmission line located above ground?	Not Applicable
General Comment:		
<i>Line markers are not required on master meter facilities where a damage prevention program is in place.</i>		
[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?	Not Applicable
General Comment:		
<i>Line markers are not required on master meter facilities where a damage prevention program is in place.</i>		
[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?	Not Applicable
General Comment:		
<i>Line markers are not required on master meter facilities where a damage prevention program is in place.</i>		
PRESSURE LIMITING AND REGULATING DEVICES (MECHANICAL)		Status
[192.739(a)(4)]	Was each pressure limiting station, relief device (except rupture discs), and pressure regulating station and its equipment subjected at intervals not exceeding 15 months, but at least once each calendar year, to inspections and tests to determine that it is properly installed and protected from dirt, liquids, or other conditions that might prevent proper operation.?	Not Applicable
General Comment:		
<i>There are no pressure regulating stations or overpressure protection devices owned and operated by White County Housing Authority.</i>		
[192.317(b)]	Is each above ground transmission line or main protected from accidental damage by vehicular traffic or other similar causes?	Satisfactory

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<u>General Comment:</u>		
<i>The master meters in the White County systems are located in areas that are not readily accessible to vehicular traffic.</i>		
[192.741(a),192.741(c)]	Were telemetering and/or recording gauges inspected for abnormally high or low pressure indications?	Not Applicable
<u>General Comment:</u>		
<i>There are no telemetering or pressure recording devices on the White County systems as they are not required.</i>		
[192.743(a)]	Is overpressure protection provided on the pipeline down stream of the take point?	Satisfactory
<u>General Comment:</u>		
<i>In May of 2014 USDI did a review of all of the master meter regulators that supply White County Housing and identified that they do not have sufficient internal relief capacity. The Municipal operators that serve the White County Housing Authority systems were notified and corrective actions were initiated to correct this oversight. During the field audit Staff observed Crossville, Illinois has installed reliefs on the downstream side of the meter set. Grayville has purchased new regulators but will need to wait until warmer weather to install due to the systems having to be shut down to install the new regulators which will have sufficient relief capacity. I spoke with Norris City and they have the reliefs on order but have not received all of the reliefs as of the time of this audit. As soon as the reliefs come in USDI is to install the reliefs at the master meter installations in Norris City, Illinois. After this is completed all of White County Housing systems will be adequately protected against overpressure.</i>		
[192.199(d)]	Were the pressure relief or pressure limiting devices inspected to determine if the support was made of noncombustible material?	Not Applicable
<u>General Comment:</u>		
<i>There are no pressure regulating stations or overpressure protection devices in the White County Housing Authority systems.</i>		
[192.199(e)]	Were the pressure relief or pressure limiting devices inspected to determine if the discharge stacks, vents, or outlet ports were designed to prevent accumulation of water, ice, or snow, and located where gas can be discharged into the atmosphere without undue hazard?	Not Applicable
<u>General Comment:</u>		
<i>There are no pressure regulating stations or overpressure protection devices in the White County Housing Authority systems.</i>		
[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?	Not Applicable
<u>General Comment:</u>		
<i>There are no pressure regulating stations or overpressure protection devices in the White County Housing Authority systems.</i>		
VALVE MAINTENANCE		Status
[192.747(a)]	Were the valves readily accessible and was the operator able to access the valve with the appropriate valve wrench?	Satisfactory
<u>General Comment:</u>		
<i>Due to the limited size of the White County Housing sites they have assigned the master meter valve as the emergency valve of which all were determined to be accessible.</i>		
[192.179(c)]	If blow down activities were observed, were the blow down valves properly sized to allow the transmission pipeline to vent as rapidly as practicable and did the	Not Applicable

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	blow down vent freely to atmosphere away from any hazards?	
General Comment:		
<i>There are no blow down installations on the White County systems.</i>		
ODORIZATION OF GAS		Status
[192.625(a)]	Was the odor intensity level readily detectable at or below 1/5th LEL?	Satisfactory
General Comment:		
<i>Staff did not conduct odorometer testing during the field audit but did review the results of the most recent testing maintained by USDI for White County Housing. Odorometer testing results for 2014 maintained by USDI were reviewed and indicate the odorant levels were detectable at concentrations of less than 1/5 the lower explosive limit.</i>		
[192.625(e)]	Was the Odorization equipment and tank levels inspected?	Not Applicable
General Comment:		
<i>White County has no odorizers as they purchase odorized gas from the municipal systems that supply their systems.</i>		
[192.625(f)]	Was the operator's equipment calibrated as required?	Satisfactory
General Comment:		
<i>Staff confirmed the odorometer was calibrated as required.</i>		
TRANSMISSION		Status
Category Comment:		
<i>White County Housing has no transmission facilities.</i>		
[192.179(b)(1)]	Are transmission valves protected from tampering or damage?	Not Applicable
[192.745(a)]	Were the valves inspected accessible?	Not Applicable
[192.719(a)]	Is pre-tested transmission pipe inventory maintained for use in an emergency?	Not Applicable
MARKING OF MATERIAL		Status
[192.63(a)]	Does the operator's components and pipe contain the required markings?	Satisfactory
General Comment:		
<i>Meters and master meter regulators were observed being marked with their maximum working pressures.</i>		
OPERATOR QUALIFICATION		Status
Was a PHMSA Form 15 Operator Qualification Field Inspection Protocol Form completed?		Yes
General Comment:		
<i>Yes, Staff observed Mike Wendling performing a short survey to test the insulators in the areas of the low potential levels.</i>		

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