

AWARD NUMBER
DTPH56-11-G-PHPT02

FROM:

PRINCIPLE INVESTIGATOR

MS. LESLIE ENGLAND
OAK RIDGE UTILITY DISTRICT

120 S. JEFFERSON CIRCLE

OAK RIDGE, TN 37830

DUNS: 041152174

EIN/TIN: 626010853

PHMSA

Office of Contracts and Procurement
1200 New Jersey Avenue, SE, E22-305
Washington, D.C. 20590

Attention: Maria Munoz

Article IV: Deliverables

Final Report

Award Number: DTPH56-11-G-PHPT02

SUBMIT DATE: June 20, 2012

To:

Agreement Officer (AO)

Mr. Warren D. Osterberg, Grant Officer
PHMSA, Office of Contracts and Procurements (PHA-30)
1200 New Jersey Ave, SE
East Building 2nd Floor, Room E 22-305
Washington, DC 20590

Agreement Administrator (AA)

Ms. Maria N. Munoz
Contract Specialist
Office of Contract & Procurements (PHA-30)
1200 New Jersey Ave, SE
East Building 2nd Floor, Room E 22-305
Washington, DC 20590

Agreement Officer's Technical Representative(GOTR)

Mr. Sam Hall
PHMSA, Office of Pipeline Safety PHP-20
1200 New Jersey Ave, SE
East Building 2nd Floor
Washington, DC 20590
Addresses Article III in Grant Agreement DTPH56-10-SN-0002

AWARD NUMBER
DTPH56-11-G-PHPT02

Article III: Expected Program Outputs

Purchases made to improve response methods for ORUD's pipeline safety

Listed Equipment

Equipment List and Cost:

Requesting 3 Remote Methane Leak Detector (RMLD: \$17,500 ea = Total \$57,000

ORUD will paid the overage of this equipment = \$7,000

Total amount of TAG = \$50,000

1. Listed under (d) Equipment

Requesting 3 Remote Methane Leak Detector (RMLD: \$19,000 ea = Total \$57,000

2. Listed under (13) Federal

Total amount of TAG requested = \$50,000

3. Listed under (14) Non-Federal

ORUD paid the overage of the equipment cost = \$7,000

Other Budget Information

4. Indirect charges not included in TAG

ORUD uses current personnel and facilities to increase pipeline safety through education and public awareness in leak detection. In addition, ORUD's personnel and manufactures will train the operators on the use of the RMLD's to ensure that this technology is used appropriately and with the safety of others, our community and environment in mind.

Article III: Expected Program Outputs

Incorporate pipeline Remote Leak Detection to improve emergency response

Implementation

1. The operations department purchased 3 Remote Methane Leak Detectors from Health Consultants on 11/4/2011.
2. The operations department educated field employees on the use and response activities involved with this project. The education was performed onsite at ORUD by Heath Consultants. The classroom training consisted of a Power Pont Presentation on proper uses and procedures, a post test that was graded for certification, field training that involved a leak surveying, proper surveying techniques, understanding a hearing the different sounds that the instrument gives off when finding a leak or not finding a leak and ended with individual evaluations of the individual employees.
3. The Marketing Director and Operations Director coordinated communications with the affected pipeline operators, the public and partnerships with other key members in the community by creating an outreach program including enable us an opportunity to educate on:
 - a. "What is leak detection?"
 - b. "How often does ORUD survey for leaks?"

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- c. "What instrument is used to find leaks?"
 - d. "How does it work?"
 - e. "What do I do if I find a Leak?"
 - i. Customer Campaign through our internal Newsletter and Web Site www.orud.org
 - ii. Public Education and Community Awareness Campaign through press releases in all 3 local papers, the Oak Ridge Observer, The Oak Ridger and the Roane County News.
 - iii. Contractors Campaign through our contractors Newsletter, Educational Flyers, Luncheon Seminar, Video and PIPE Meeting
 - iv. Public Officials and Emergency Responders by Educational Flyers, RMLD DVD, Luncheon Seminar, Video and PIPE Meeting
 - v. Real Estate Agents were also invited to Luncheon Seminar.
4. The Operations Director prepared an evaluation memo.
5. All receipts were given to accounting along with notification of completion and verification of the improvements in writing.

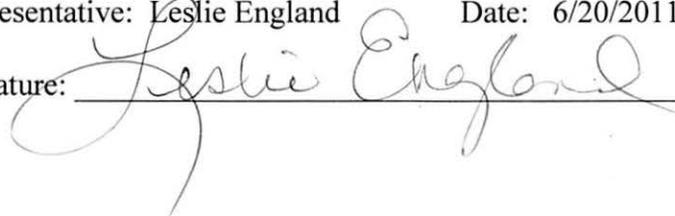
BENEFIT

Upon completion of this project, Oak Ridge Utility District will had access to valuable leak detection RMLD equipment. This new technology was able to detect leaks within a 100 ft of the leak with great accuracy, and can aid in the reduction of consequences (harm to people, environment, and economy) on ORUD's pipeline with the end goal being to lower the risk of pipeline accidents. It has also help in leak surveying the harder to reach areas like under bridges, bad terrain and fenced in areas. We thought we would be able to eliminate flame ionization, but in fact we see a need for both technologies based on the odorant leak or leak survey situation. However, ORUD believes this project was a necessity in maintaining and improving the reliability of our system that delivers natural gas to our District's communities.

Enclosed is the corresponding documentation for this grant.

Representative: Leslie England Date: 6/20/2011

Signature: _____



Leslie England

From: Jeff Patterson
Sent: Friday, June 15, 2012 9:30 AM
To: Ben Andrews
Cc: Staff
Subject: Emailing: RMLD Review.docx
Attachments: RMLD Review.docx

Attached is my assessment of the new RMLD leak detection instrument that is required to complete the grant follow-up. I want to thank Ben for allowing us to go after grants like this one, and a thanks to Leslie for all her hard work writing the grant request. The Operations work force appreciates having equipment on the cutting edge of today's technology and we feel fortunate that we can give our customers the best service available as a result of having tools like the RMLD.

Thank you
Jeff Patterson



To: Ben Andrews, Staff

From: Jeff Patterson

Date: 6/28/2012

Re: Remote Methane Leak Detector

The addition of the Remote Methane Leak Detector has proven to be a very useful tool, and it allowed our technicians to scan wider survey areas at greater distances, up to one hundred feet surrounding the gas pipes path resulting in our annual leak survey being completed more quickly and efficiently. We were able to safely and quickly survey areas that are normally difficult to reach, such as roadway crossings, fenced yards or yards with dogs and locked gates, bridges and other areas that in the past were difficult to survey due to limited access. I am convinced the RMLD is an effective leak survey instrument that is very well suited for system leak detection and the RMLD adds the advantage of remote detection which can most certainly add to the safety of our system when used in the proper application. We have experienced productivity gains without losing any quality of detection so I feel the addition of the RMLD equipment has been a success.

By:	Action	Date	Completed
Jeff Patterson	Employee Training on RMLD	1/19/2012	JP
	Annual Leak Survey	6/15/2012	JP
	Results Memo	0615/2012	JP
Leslie England	Public Education & Outreach		
	Customer Newsletter	3/1/2012	LE
	Customer Newsletter	4/1/2012	LE
	Press Releases - Observer	3/22/2012	LE
	Press Releases- Oak Ridger	4/6/2012	LE
	Press Releases - Roane News	3/30/2012	LE
	Contractor Newsletter	4/1/2012	NB
	Education for Public Officials, Police and Fire Dept/Email Video Link and Brochure	3/22/2012	LE/NB
	Invite to Partners in Protecting Everyone 811	6/12/2012	LE
	Contractor/Public Officials and Fire Department and Police Dept. Luncheon	5/16/2012	LE/NB
	Add RMLD Video to Website	3/27/2012	JS/LE



EMPLOYEE TRAINING

DTPH56-11-G-PHPT02

JEFF PATTERSON

1-19-2012

RMLD

Remote Methane Leak Detector

Training & Orientation
Heath Consultants

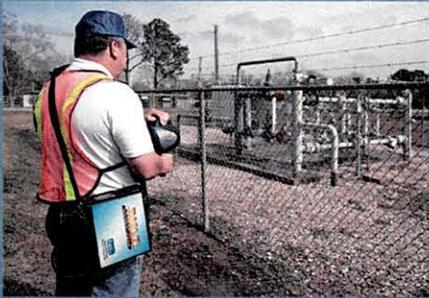
COURSE GOAL

- To educate and train leak surveyors to competently and accurately perform leak survey with the Remote Methane Leak Detector, in a manner that is safe and consistent.
- Increase leak survey accuracy
- Comply with all federal and state standards
- Have RMLD operation be consistent across the organization



BENEFITS

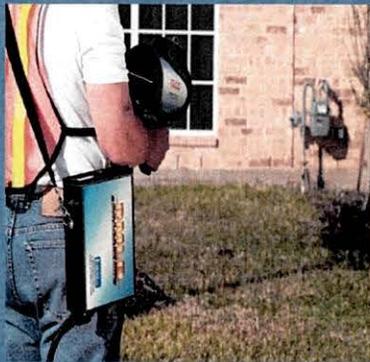
Reduce Survey challenges:
Backyard main/services.



Over or through fences /
no access

Enclosed Regulator
stations

BENEFITS

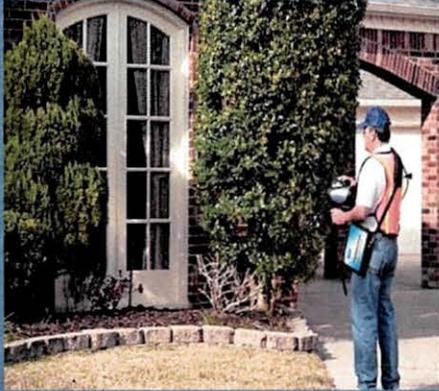


Perform most
surveys without
physically walking
service lines.

Can scan both sides
of the street.

Safer to inspect busy
street and
intersections.

BENEFITS



- Able to remotely check inside buildings or confined spaces for presence of methane.
- Intrinsic Safety

BENEFITS (cont'd)

- Wider area of search due to sweeping of the beam
 - Significant advantage to detect leaks away from the pipe
 - Scanning technique verses probing technique
- Productivity savings 20% to 40% for most utilities
- Rapid warm-up
- Built in self test and calibration
 - Verifies operation and adjusts laser wavelength for maximum sensitivity

TERMS

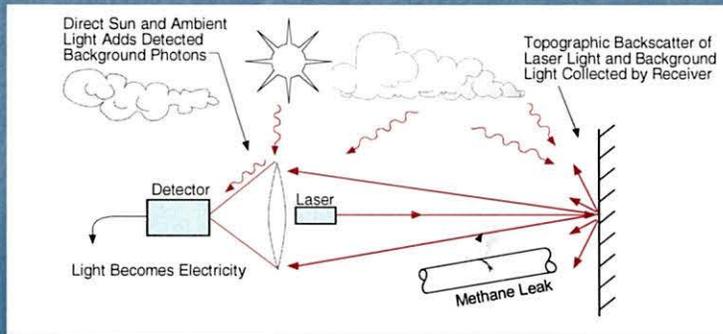
- Control Module
- Transceiver
- Spotter Laser
- Tunable Diode Laser Absorption Spectroscopy (TDLAS)
- Beam Skip
- Dark Zone
- Footprint
- DMD
- Pure Tone
- Infrared (IR)
- Laser calibration drift
- PPM-M (Parts Per Million – Meter)

RMLD vs. FI

	Remote Methane Leak Detector	Flame Ionization
Detection Method:	Tunable Diode Laser Absorption Spectroscopy (TDLAS)	Flame Ionization
Measurement Range:	0 to 99,999 PPM-M	0 to 10,000 PPM
Sensitivity:	5 PPM-M at distance from 0 to 50 ft 10 PPM-M or better at distance from 50 to 100 ft	2 to 50 PPM depending on model and type
Detection Distance:	100 ft (30 M) nominal. Actual distance may vary due to background type and conditions.	Probe must be within the gas plume
Detection Area:	Conical in shape with a 22" width at 100 ft. (.5 M at 30 M)	2.5 inches
Detection Alarms Modes	Advanced detection signal processing method	simple threshold alarm
Self Test & Calibration	Built in Self Test and Calibration verifies operation and adjusts laser wavelength for maximum sensitivity. Test cell integrated with carrying case.	Requires operator to use complex configuration of gas bottles and regulators
Power Source	Internal battery pack	Hydrogen gas and internal battery

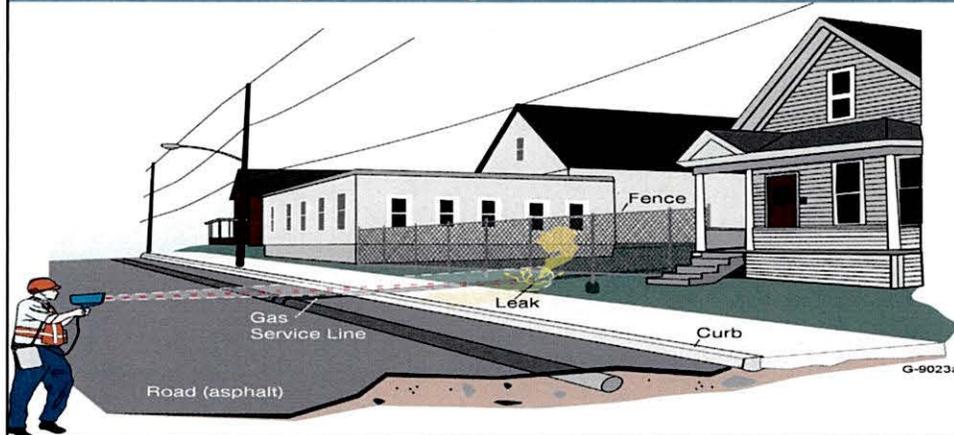
TECHNICAL APPROACH – How it Works

- Laser light beam is remotely projected on to a target (e.g., grass, wall, etc.)
- A fraction of the beam is scattered from the target surface and returned to the source
- Returned light is collected and focused onto a detector
- The presence of methane is encoded within the returned light
- Methane readings are displayed in ppm-m



THREE CONDITIONS NEEDED TO DETECT A LEAK

- Need a sufficient plume to detect a leak
- The IR beam must pass through the plume
- Need a background target to reflect beam

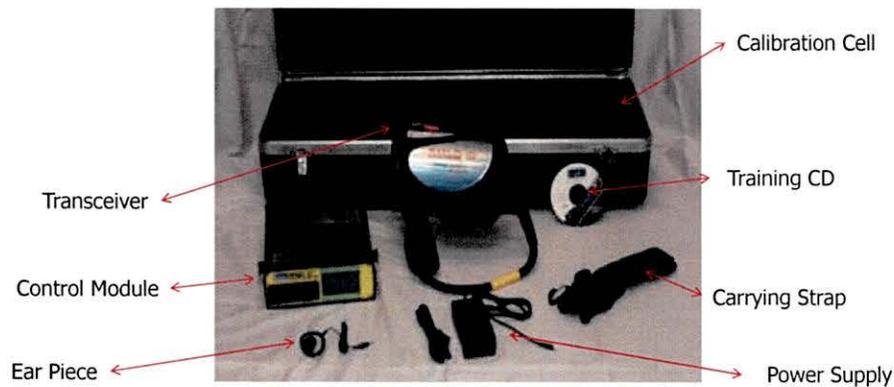


ADVERSE CONDITIONS THAT AFFECT LEAK DETECTION

- Poor background surfaces
- Weather: wind, rain, snow, frost
- Low flowing leaks with non-measurable plumes
- Surface types affect leak spread
- Ground elevation
- Obstructions in line of site
- Scanning over 100 feet

RMLD KIT INCLUDES

Complete Kit with Carrying Case and Harness (next slide)



RMLD Overview: Parts and Functions

■ Transceiver

Green Spotter
Laser * (approx
3" above IR laser)
Infrared (IR)
Detector Laser
(invisible beam)

Spotter Trigger
Switch



Sighting
Marking

Fiber Optic
inside Cord
(Don't roll to less
than 4" coil – kink
can break it)

*Caution: Don't stare into beam or view directly with optical instruments.

25

Transceiver

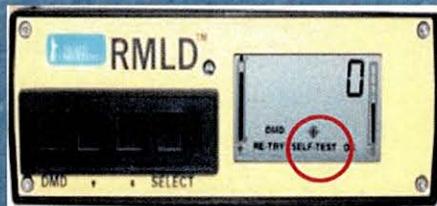
LASER SAFETY

- Infra-red Detector Laser
 - Class I
 - Always on when instrument is on. This laser is invisible.
- Green Spotter Laser
 - Class IIIa
 - Under the control of the operator
 - Same rating as pointer lasers commonly sold in stores and used for business presentations
 - Safe when handled properly

INTERNAL BATTERY (cont'd)

- Front of controller – blinking red light and solid green indicated normal charging
- Allow instrument to charge until both lights have turned off
- The blinking red light will turn off as the battery becomes charged

SELF - TEST



3. Turn on the instrument and allow it to warm up for 2 to 3 minutes.
Place the Transceiver in its position in the carrying case, making sure it is all the way in place and flat.
4. Press the Select button until the Self-Test icon is shown on the display.
5. Press the Up button to initiate the Self-Test. The number 255 will then be displayed.
6. When the OK icon is displayed, the instrument passed the Self-Test.

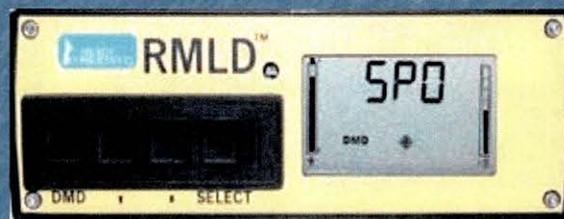
VOLUME LEVEL



VOL

- Press up button to increase the volume level.
- Press down button to decrease the volume level.

SPOTTER ENABLING AND DISABLING



SPO

- Press up button to enable or disable the spotter laser.

DMD MODE



- To turn on the DMD mode, press the DMD button.
- The DMD icon is displayed, as shown.

Note: You must be on the “run screen” to activate or de-activate DMD mode.

TWO DETECTION MODES

DMD (Digital Methane Detection) Mode

- Used in most survey situations.
- Silent until methane is detected.
- Higher the tone, the higher the methane concentration.



Pure Tones Mode

- Continuous tone relative to methane concentration levels.
- Most effective up close to help verify low level detections.
- Is turned on when DMD switch is pressed.



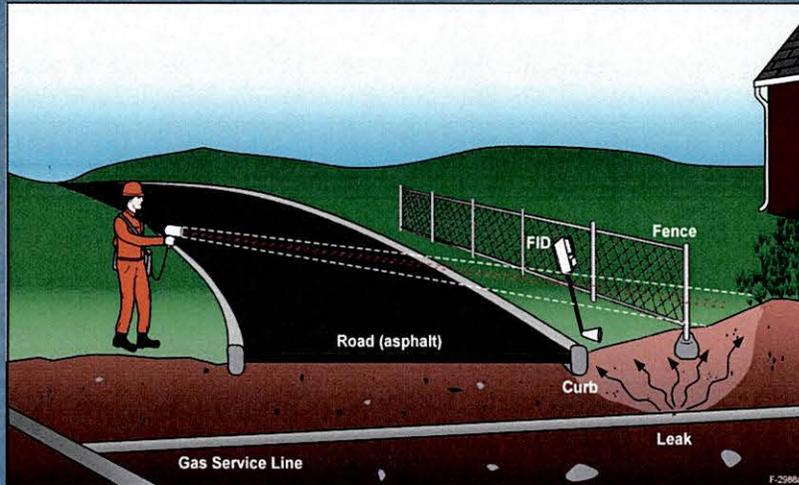
REVIEW (CONT'D)

- 6. What are some other adverse conditions that can affect leak detection?
- 7. When would you use the green spotter laser?
- 8. How far above the IR laser is the green spotter laser on the Transceiver?

REVIEW (cont'd)

- 9. What should you not do when the green spotter laser is on, and why?
- 10. Is the Infrared laser eye safe?
- 11. What is a way to avoid hand cramping when depressing the trigger switch for the green spotter laser?

RMLD CONCEPT



Do not need to be in gas plume!

SEVERAL FACTORS

- Instrument is selective to methane only
 - Is a search tool and not a measurement tool
- Maximum distance is 100 feet with a beam width of 22 inches
- Technology makes it possible to detect leaks along the sight line without always having to walk the full length of the pipe

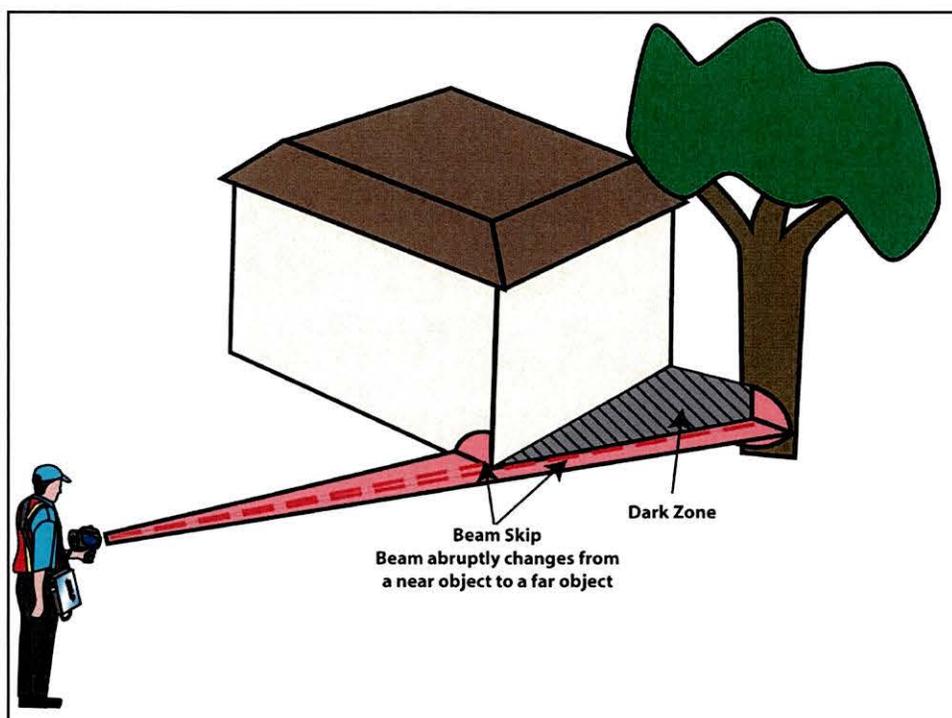
WALKING THE MAIN

- Sweep in methodical, even motions to minimize "false" reads.
- Use spotter beam and/or sighting marks for aiming.
- Scan service taps and valves as you approach.
- As with FI, target probable vent locations, vegetation damage, etc.

SERVICE LINES

- Use the advantage of the beam by sweeping wider.
- Work the beam up the line in a horizontal "S" pattern.
- Scan the meter.
- Rescan down the line using the "S" pattern.
- Approach, as needed:
 - Verify detections.
 - Scan "dark zones".
 - Out-of-range.

SURVEYING - "X" PATTERN



LONG RANGE SCANNING

- The RMLD can detect leaks up to 100 feet away.
- The actual distance may vary due to:
 - Target surface.
 - Environmental conditions.

Tip: When surveying distances greater than 50', it is important to slow down the scanning rate and take care in aiming the laser.

FALSE DETECTIONS

- Sudden changes in light return.
- Elevations.
- Abrupt or jerky motions.
- Strong reflections off certain surfaces, (e.g., black garbage bags, dew, glass, polished surfaces, stones, license plates, reflectors, etc.).

SAFETY

- Do not stare into beam or view directly with optical instruments.
- Do not attempt to repair instrument.
- Do not turn on or attempt to use the RMLD indoors if there is an indication, potential or suspicion that an explosive level of gas is present.

REVIEW

1. What is the most important aspect of using the RMLD Transceiver?
2. What are some ways to control the aim of the laser?
3. Why do you want to keep the beam pointed out 15 to 20 ft. in normal survey conditions?

REVIEW (cont'd)

- 10. What is critical to have to reflect the beam back to the RMLD?
- 11. What is a "dark zone" and what can cause it?
- 12. What are the safety precautions (conditions) you need to take with the RMLD?

STOP

HEATH CONSULTANTS INCORPORATED



Certificate of Achievement

Awarded To

Robbie Robbins

for the successful completion of

One Day Course on the Operation, Procedures
and Maintenance of the RMLD-IS

Conducted by Heath Consultants Incorporated
Houston, Texas

January 19, 2012

Date

G. Midge
President & CEO

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Certificate of Achievement

Awarded To

Bob Davis

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President & CEO

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Certificate of Achievement

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David Butler

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G. Midge
President & CEO

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Certificate of Achievement

Awarded To

Dan Roach

for the successful completion of

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and Maintenance of the RMLD-IS

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January 19, 2012

Date

G. Middle
President & CEO

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Certificate of Achievement

Awarded To

Stanley Smith

for the successful completion of

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and Maintenance of the RMLD-IS

*Conducted by Heath Consultants Incorporated
Houston, Texas*

January 19, 2012

Date

G. Middle
President & CEO

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Certificate of Achievement

Awarded To

George Hackler

for the successful completion of

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and Maintenance of the RMLD-IS

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Houston, Texas*

January 19, 2012

Date

G. Middle
President & CEO

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Certificate of Achievement

Awarded To

Russell Bowlin

for the successful completion of

One Day Course on the Operation, Procedures
and Maintenance of the RMLD-IS

*Conducted by Heath Consultants Incorporated
Houston, Texas*

January 19, 2012

Date

G. Mingle
President & CEO

HEATH CONSULTANTS INCORPORATED



Certificate of Achievement

Awarded To

Jeff Patterson

for the successful completion of

One Day Course on the Operation, Procedures
and Maintenance of the RMLD-IS

Conducted by Heath Consultants Incorporated
Houston, Texas

January 19, 2012

Date

G. Midge
President & CEO



ANNUAL LEAK SURVEY/RESULTS MEMO

DTPH56-11-G-PHPT02

JEFF PATTERSON

6-15-2012



To: Ben Andrews, Staff

From: Jeff Patterson

Date: 6/15/2012

Re: Remote Methane Leak Detector

The addition of the Remote Methane Leak Detector has proven to be a very useful tool, and it allowed our technicians to scan wider survey areas at greater distances, up to one hundred feet surrounding the gas pipes path resulting in our annual leak survey being completed more quickly and efficiently. We were able to safely and quickly survey areas that are normally difficult to reach, such as roadway crossings, fenced yards or yards with dogs and locked gates, bridges and other areas that in the past were difficult to survey due to limited access. I am convinced the RMLD is an effective leak survey instrument that is very well suited for system leak detection and the RMLD adds the advantage of remote detection which can most certainly add to the safety of our system when used in the proper application. We have experienced productivity gains without losing any quality of detection so I feel the addition of the RMLD equipment has been a success.



CUSTOMER NEWSLETTERS

DTPH56-11-G-PHPT02

LESLIE ENGLAND

3-1-2012 THROUGH 4-30-2012

SENT TO ALL CURRENT ORUD CUSTOMERS FOR 2 MONTHS INSERTED INTO BILLS

ARE YOU PREPARED FOR A POWER OUTAGE?



If it's winter weather or just an unexpected accident that knocks the power out, be prepared and install a set of natural gas logs or a heater from ORUD. This will provide your home with a source of supplemental heat. Easy and affordable, natural gas logs or wall heaters insure warmth in the case of a power outage. It can also help minimize other loss or damage that may occur from freezing (like frozen pipes).

Currently ORUD is running specials on:

- Natural gas wall heater \$99
- 18" natural gas log set \$150
- 24" natural gas log set \$185
- Self contained complete hearth \$549
(no venting required & while supplies last)



With a purchase of logs or a heater you qualify for up to 100 feet of service line to be run from the main line to your home, at no cost.

Plus, receive special installation pricing. You can get 15 ft of interior piping and 3 hours of labor for only \$175.



**Know what's below.
Call before you dig.**

One free, easy call gets your utility lines marked
AND helps protect you from injury and expense.

Common Ground Alliance



**Determina lo que está bajo tierra.
Llama antes de excavar.**

Remote Methane Leak Detection

The Remote Methane Leak Detector (RMLD) is recognized as one of the top technological products introduced in the marketplace in recent years. The RMLD can quickly and efficiently detect leaks up to 100 feet away. The RMLD uses laser technology, remote detection and allows users to safely survey areas that may be difficult to reach. The RMLD has proven to be a highly effective leak survey instrument.

ORUD has recently received a Pipeline & Hazardous Material Safety Administration (PHMSA) Grant to purchase 3 RMLD's. This equipment will be used to detect leaks that are in hard to reach areas. The RMLD's are truly an enhancement to help ORUD in its efforts to continually stay on top when it comes to safety, by keeping up with the industry's top technology.

Your safety is first at ORUD! For more safety info go to:

www.orud.org

Spring Time is Grill
Time at ORUD!

April 2012



Annual Leak Survey

It is that time of year again, time for Oak Ridge Utility District's annual leak survey. So you may ask yourself "what is a leak survey and why does ORUD perform this?"

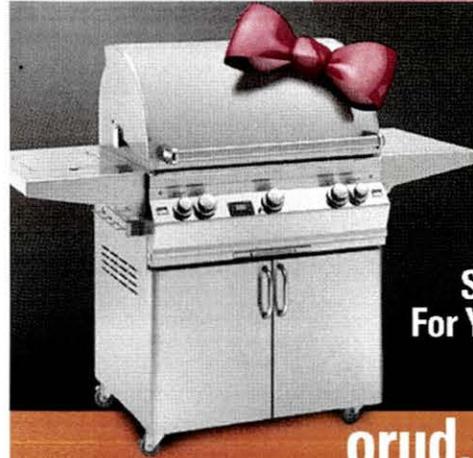
As a part of ORUD's commitment to safety, ORUD technicians will be working in neighborhoods during the next few months conducting our annual leakage control survey on the underground natural gas pipelines. This leak survey is done on 1/5 of the overall distribution system and at all schools, churches and business districts annually in accordance with Federal Regulation CFR 49 192.723. Although most leaks found are very minor our job is to be proactive in searching out and repairing any leaks before they become a hazard.

This year ORUD will be using Remote Methane Leak Detectors. The Remote Methane Leak Detector (RMLD) can quickly and efficiently detect leaks up to one hundred feet away. Using laser technology, remote detection allows the user to survey areas that may be difficult to reach, such as busy roadways, yards with large dogs, locked gates, pipe suspended under bridges and other hard to access places.

Natural gas is odorless and colorless in its natural state so as a safety precaution ORUD adds a sulfur-like odor to the natural gas to help people with a normal sense of smell to easily identify gas leaks. We ask if you smell that sulfur odor or suspect a leak contact ORUD immediately at (865) 483-1377 or call 911 for help.

DO NOT rely on your sense of smell alone to detect the presence of natural gas. In addition to the distinctive odor added to natural gas, the following signs may indicate the presence of a gas leak: a hissing, whistling or roaring sound near a gas appliance or pipeline; a damaged connection to a gas appliance; dead or dying vegetation in an otherwise moist area over or near pipeline areas; dirt or water being thrown in the air; a fire or explosion near a pipeline; and exposed pipeline after an earthquake, fire, flood or other disaster.

Here is another tip, calling 811 to have all underground utilities marked prior to beginning excavation projects will help save lives, protect property and utility infrastructure. Knowing where underground utility lines are buried helps to prevent injury, expense and penalties. The depth of utility lines may vary and multiple utility lines may exist in one area. Simple digging jobs can damage utility lines and can disrupt vital services to an entire neighborhood, harm those who dig and result in expensive fines and repair costs. Marked lines show those who dig the approximate location of underground lines and help prevent undesired consequences.



Daddy's Little Grill

Shop Hearth & Home
For Your Natural Gas Grills!

orud.org 483-1377



Call (865) 483-1377 to get an installation quote.

ORUD, we are your natural gas BBQ store!

Only \$175

Grill Installation Special

Includes 15 feet of piping and up to 3 hours labor.



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Don't forget we offer
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(with approved credit)

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We can also special
order for Drop ins and
other brands.

Only \$399.00

Ducane Affinity 3100 Natural Gas Grill In Black 550 Sq. In. Total Cooking Area. 3 Stainless Steel Burners. 36,000 Btu-Per-Hour Input. Porcelain-Enameled Heat Distribution Plates. Electronic Ignition. Built-In Lid Thermometer. Includes A 10-Foot Flexible Hose. Black Finish



BROILMASTER
PREMIUM GAS GRILLS

Broil King
Great Barbecues Every Time





COMMUNITY PRESS RELEASES

DTPH56-11-G-PHPT02

LESLIE ENGLAND

**3/22/2012 OAK RIDGE OBSERVER
4/1/2012 THE OAK RIDGER
3/30/2012 ROANE COUNTY NEWS**

The Oak Ridge Observer

969 Oak Ridge Tpke. # 281
Oak Ridge, TN 37830

Invoice

Date	Invoice #
3/28/2012	11164

Bill To
Oak Ridge Utility District Attn: Accounts Payable 120 S. Jefferson Circle Oak Ridge, TN 37830

Due Date
3/28/2012

Item	Description	Print date	Qty	Rate	Amount
Ad - Special Size	Ad - Special Size-3x8.	3/22/2012	1	150.00	150.00
<p>The goods and/or services listed on this invoice/receipt have been received for the lawful purposes of the Oak Ridge Utility District</p> <p><i>[Signature]</i></p> <p><i>PHMSA Grant Safety</i></p>					

Total	\$150.00
Payments/Credits	\$0.00
Balance Due	\$150.00

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Save gas. Get convenient home delivery in Oak Ridge and Clinton. Only \$50 per year, or \$30 for six months. Call (865) 483-1866.

DOE Briefs

• ORNL's Jaguar super-computer has completed the first phase of an upgrade that will keep it among the most powerful scientific computing systems in the world. Acceptance testing for the upgrade was completed earlier this month.

• URS | CH2M Oak Ridge LLC (UCOR) issued staff augmentation subcontracts to 10 companies recently. They are StrataG Staffing Services; Navarro Research and Engineering, Inc.; Spectra Tech Inc.; Value Added Solutions; Transportation, Operations and Professional Services; Technical & Field Engineering Inc.; Edgewater Technical Associates; Denuke Contracting Services Inc.; SA Mays LLC; and Strategic Resource Alliance LLC. The contracts cover five years and are valued up to \$45 million. UCOR is responsible for

deactivation and demolition of the K-25 facility at ETRP, as well as other work.

• The Atomic Trades and Labor Council (ATLC) and B&W Y-12 raised \$20,000 toward this year's March of Dimes campaign.

• The Tennessee Veterans Business Association recognized Dan Hurst, President and founder of Strata-G, as their first recipient of the Bravo Zulu Award. The highest honor the TVBA awards, the Bravo Zulu Award is in recognition of Dan's veteran spirit and leadership and of Strata-G's community service.

• DOE appointed three new members to its Oak Ridge Environmental Management advisory board. The new members will fill vacancies on the Site Specific Advisory Board, a volunteer citizens' panel that

provides advice and recommendations about environmental cleanup operations. The new members are Jacqueline Hagy, Corkie Staley, and Robert Stansfield.

• WSI Oak Ridge was recently honored by the Tennessee Veterans Business Association (TVBA) with its "Veterans Work" Award. WSI Oak Ridge is proud that nearly 50 percent of its workforce served our country.

• Tammy Graham of Y-12's Technology Transfer office has received two awards in recognition of her work helping private companies license technology from the Y-12 National Security Complex.

• DOE awarded a \$31.5 million contract to BEI-JES Oak Ridge, LLC (BJOR) for business and administrative support services. The contract will employ 100 people in Oak Ridge and other sites.

'Outdoors'

CONTINUED FROM PAGE 4

non-family designees as related to wild hog control efforts on large acreage tracts.

Also the Agency will establish no less than a 10-day period whereby the state will partner with the public in its wild hog control efforts on Catoosa Wildlife Management Area and other WMAs deemed appropriate. This period would allow for the use of dogs by the public in its assistance to the Agency. It would be appropriate for the staff to recommend

how the period would be implemented, including the 10 days not necessarily being consecutive in consideration to the WMA's other activities and seasons.

The TWRC will hold its next meeting April 12-13 in Nashville. A video of these monthly meetings will now be available online. The video should be posted by 7 p.m. each day of the meeting in the Hot Topics Section of the TWRA website www.twildlife.org, and also in the TWRC section of the site.

• • •

A new online forum is being sponsored by Knight Ri-

fles. The site welcomes all shooters and hunters with forum areas dedicated to discussing black powder hunting, shooting, general muzzleloader talk, and model specific forums for each Knight Rifle model. Users can share information about their rifles, powder and bullet combinations, hunting experiences, and even upload pictures in the Trophy Room. The "Knight Nation Forum" can be accessed from www.KnightRifles.com.

Tom Wiest welcomes news, questions and comments from readers. Contact him at wiest.tom@gmail.com.

'Dave'

CONTINUED FROM PAGE 4

you're a doctor, and it doesn't mean you're a good doctor, either. You just need to worry about what's smart for you instead of what other people think.

Dear Dave,

I'm 24, and I don't have any debt except for a small student loan. I'm going to law school to study international law, and I have a scholarship that pays 25 percent. However, I won't really be able to work much while I'm studying. How can I do this with-

Dear Amy,

If I were you I'd do some online research on all the governmental agencies out there. I'll bet there's one that's willing to pay for your law school if you would agree to work for them for a few years after you get out. It's kind of an

Featured Business of the Week

ORUD's Technicians Proactive in Leak Survey

Safety is first at ORUD. The article below will help you understand these questions:

- "What is leak survey detection?"
 - "How often does ORUD survey for leaks?"
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 - "How does it work?"
 - "What do I do if I find a leak?"
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Paid Advertisement

Sign up for Featured Business of the Week by calling (865) 483-1866.

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The scholarship is a good thing, but we both know it will only scratch the surface when you're talking about law school. Think about this, Amy. You got the scholarship by finding a good opportunity and asking for it, right?

There's a ton of scholarship money out there, and millions of dollars of it goes unclaimed every year.

If I were you, I'd get into the business of hunting money. Track down every possibility you can, and use

every honest thing to your advantage!

- Dave

Dave Ramsey is a money management expert, national radio personality and author of three New York Times bestsellers. Learn more at daveramsey.com.

THE OAK RIDGER
 785 OAK RIDGE TURNPIKE
 OAK RIDGE TN 37830

(865) 482-1021

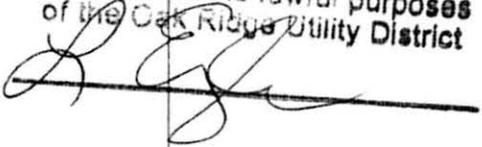
Fax(865) 220-5460

Advertising Invoice and Statement

1 Billing Period 04/2012		2 Advertiser/Client Name OAK RIDGE UTILITY DIST.		
23 Total Amount Due 152.25		*Unapplied Amount	3 Terms of Payment	
21 Current Net Amount Due 152.25	22 30 Days .00	60 Days .00	Over 90 Days .00	
4 Page Number 1	5 Billing Date 05/06/12	6 Billed Account Number 191 WANDA.		7 Advertiser/Client Number 191

8 Billed Account Name and Address OAK RIDGE UTILITY DIST. PO BOX 4189 OAK RIDGE TN 37831		Amount Paid: Comments:
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Please Return Upper Portion With Payment

10 Date	11 Newspaper Reference	12 13 14 Description-Other Comments/Charges	15 SAU Size 16 Billed Units	17 Times Run 18 Rate	19 Gross Amount	20 Net Amount
04/06/12	43228 ROP	ROP ADVERTISING CHARGE OAKM	3X 21.00	1 0.00	152.25	152.25
<p>For 11624 PHMSA GRANT</p> <p>The goods and/or services listed on this invoice/receipt have been received for the lawful purposes of the Oak Ridge Utility District</p> 						

Statement of Account - Aging of Past Due Amounts

Due date: 05/21/12

21 Current Net Amount Due 152.25	22 30 Days 0.00	60 Days 0.00	Over 90 Days 0.00	*Unapplied Amount	23 Total Amount Due 152.25
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THE OAK RIDGER
 (865) 482-1021

* UNAPPLIED AMOUNTS ARE INCLUDED IN TOTAL AMOUNT DUE

24 Invoice Number 238		25 Advertiser Information				
1 Billing Period 04/2012	6 Billed Account Number 191	7 Advertiser/Client Number 191	2 Advertiser/Client Name OAK RIDGE UTILITY DIST.			

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(You Tube Video: <http://www.youtube.com/watch?v=r659wXOJHYM>)

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ROANE NEWSPAPERS
PO BOX 610
KINGSTON, TN 37763-0610

BILLING PERIOD		ADVERTISER/CLIENT NAME	
MARCH 2012		OAK RIDGE UTILITY DISTRICT	
NET AMOUNT DUE		TERMS OF PAYMENT	
296.80		PAYMENT DUE BY 4/15	
CURRENT NET AMOUNT DUE	30 DAYS	60 DAYS	90 DAYS
296.80	.00	.00	.00

ADVERTISING INVOICE

BILLER ACCOUNT NAME AND ADDRESS	REMITTANCE ADDRESS
OAK RIDGE UTILITY DISTRICT ATTN: ACCOUNTS PAYABLE PO BOX 4189 OAK RIDGE TN 37831-4189	ROANE NEWSPAPERS LANDMARK COMM NEWSPAPERS PO BOX 1118 SHELBYVILLE, KY 40066-1118

PAGE #	BILLING DATE	BILLED ACCOUNT NUMBER	ADVERTISER/CLIENT NAME	Change of address? Please mark changes above.	AMOUNT PAID \$
1	3/31/2012	162-169455			

PLEASE DETACH AND RETURN THIS PORTION WITH YOUR REMITTANCE

PLEASE MAIL PAYMENTS DIRECTLY TO THE 'REMITTANCE' ADDRESS ABOVE AND INCLUDE THE 9-DIGIT CUSTOMER NUMBER ON THE CHECK K OR USE THE TEAR OFF REMITTANCE WITH THE ENCLOSED ENVELOPE.

10	DATE	11	REP	12	13	14	DESCRIPTION-COMMENTS	15	16	17	18	19	20	21
								SAV/BILLED UNITS		RATE		GROSS AMOUNT	DISCOUNT	NET AMOUNT
3/30		01					INVOICE 201203 LEAK SURVEY TOTAL ROANE COUNTY NEWS CURRENT MONTH DUE	3X 8.00		11.95		296.80 296.80 296.80	.00 .00	296.80 296.80 296.80
							The goods and/or services listed on this invoice/receipt have been received for the lawful purposes of the Oak Ridge Utility District							
							*** TEARSHEETS IN SEPARATE MAILING TOTAL DUE INCLUDING PAST DUE AMOUNTS AND PREPAYMENTS							
												296.80	.00	296.80

STATEMENT OF ACCOUNT IF TOTAL PAYMENT IS NOT RECEIVED BY DUE DATE, A SERVICE CHARGE OF 1.5% PER MONTH (18% ANNUAL PERCENTAGE RATE) WILL BE IMPOSED					
CURRENT NET AMOUNT	30 DAYS	60 DAYS	90 DAYS	GROSS AMOUNT DUE	NET AMOUNT DUE
296.80	.00	.00	.00	296.80	296.80

FOR BILLING QUESTIONS ROANE NEWSPAPERS, PO BOX 610, KINGSTON, TN 37763-0610
PLEASE CONTACT: 1-865-376-3481 EXT. 325 OR EXT. 326

ADVERTISER INFORMATION					
BILLING PERIOD	BILLED ACCOUNT NUMBER	ADVERTISER/CLIENT NUMBER	ADVERTISER/CLIENT NAME		
MARCH 2012	162-169455		OAK RIDGE UTILITY DISTRICT		
YEAR TO DATE DOLLARS	CONTRACT EXPIRATION	CONTRACT REQUIREMENTS	CONTRACT CURRENT MONTH	CONTRACT CUMULATIVE	
286.80					

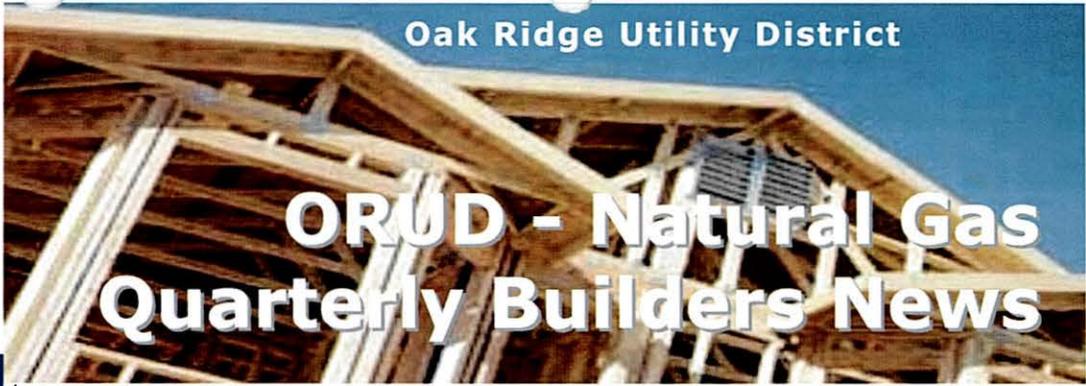


CONTRACTOR NEWSLETTER

DTPH56-11-G-PHPT02

LESLIE ENGLAND/NIKKI BRADLEY

MAILED OUT 4/1/2012

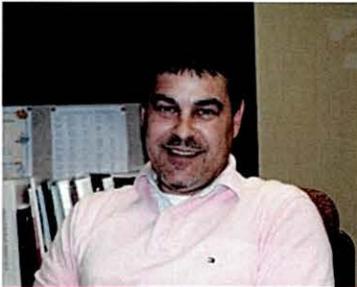


Oak Ridge Utility District

ORUD - Natural Gas Quarterly Builders News

April 2012

**Operations Director
Jeff Patterson**



Did you know?

- Builders receive incentives for installing Natural Gas Heat or Water Heating. Call Nikki For Details (865) 220-6063.
- Builders get special pricing on appliances, fireplaces and other products from the ORUD showroom. Call Raeshell at (865) 220 6061.
- Ask us how ORUD can help you make money when installing Natural Gas Appliances in a home.

(865) 483-1377

120 S. Jefferson Circle
Oak Ridge, TN 37830

**GET
a \$385
Credit**

*Just for choosing to
convert your
main heat or water heater!*

That's right, if you convert your main heat source from propane or electric to clean natural gas you will get a \$385 credit on your natural gas utility bill.

This credit will help pay for your heat this upcoming winter!

-OR-

If you chose to convert a water heater instead, you can purchase the water heater from ORUD and get \$385 off the initial price of the water heater.

Call ORUD for more details and choose natural gas for your heating needs.

Call (865) 483-1377

Restrictions may apply. Installations must meet Federal Code Regulations. One incentive per service address. If your address has already received an incentive, it can not qualify for another incentive. No monetary value—no refunds.

Natural Gas Service Lines—How can you get them at no cost?

SERVICE LINE EXTENSION POLICY EFFECTIVE 6-22-2011

The service line extension policy is revised to the following:

1. A 100-foot minimum (\$200) charge shall apply if none of the appliances listed below are installed within the allowed time frame. All unqualified footage over 100 feet will be billed at \$2.00 per foot.
2. A credit of 200 LF for each of the following natural gas burning appliances will be given: Water Heater, Cook Range, Cooktop, Oven, Clothes Dryer, Pool Heater or Primary Heat Unit
3. A credit of 100 LF for each of the following natural gas burning appliances will be given: Logs, Grill or Outdoor Light
4. A credit of 50 ft for a Natural Gas Generator will be given after the installation of 3 of the above natural gas appliances.
5. ORUD's policy allows for up to 1800 LF of service line per customer.



Call (865) 483-1377



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(865) 483-1377
120 S. Jefferson Circle
Oak Ridge, TN www.orud.org

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Want Natural Gas in your home, but can't make the drive to Oak Ridge? Call us and WE WILL COME TO YOU!

ORUD offers personalized in-home consultations with you about converting your home to natural gas. Call Nikki today to set up your FREE consultation.
865-483-1377 www.orud.org

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Call (865) 483-1377

ORUD is offering the DEAL OF THE YEAR on Rheem 7.4 GPM Natural Gas Tankless Water Heaters

Restrictions apply. See ORUD representative for terms. Limited offer—while supplies last. Must be a brand new service line to qualify.



\$799 INSTALLED

**Special
Price**



Community Education Outreach

ORUD's Technicians Proactive in Leak Survey

Press Release 3/2/12

Safety is first at ORUD. The article below will help you understand these questions:

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For more details on the RMLD go to:

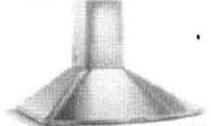
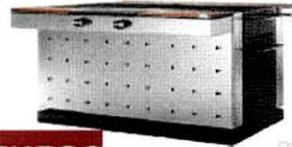
<http://www.youtube.com/watch?v=r659wXOJHYM>

Need a turn key subcontractor on gas piping and natural gas appliances? Call ORUD.

We install and inspect! **Free Quotes (865) 483-1377**



Final Markdown Sale!

 <p>DEVONSHIRE MANTEL SHELF \$265</p>	 <p>FRIGIDAIRE 27 INCH ELECTRIC DOUBLE WALL OVEN \$1305</p>	 <p>FRIGIDAIRE 30 INCH STAINLESS \$499 VENT HOOD</p>	 <p>FRIGIDAIRE 30 INCH WHITE RANGE HOOD \$35</p>
 <p>FRIGIDAIRE 30 INCH WHITE \$1169 SLIDE IN RANGE</p>	 <p>FRIGIDAIRE 36 INCH STAINLESS \$637 VENT HOOD</p>	 <p>FRIGIDAIRE 36 INCH WHITE GAS COOKTOP \$645</p>	 <p>FUECO 1 GAS GRILL \$2419</p>
 <p>FUECO 2 GAS GRILL \$1386</p>	 <p>30 INCH STAINLESS STEEL DOWNDRAFT GAS COOKTOP \$1360</p>	 <p>36 INCH BLACK RANGE HOOD \$350</p>	 <p>HALF HEWN MANTLE \$345</p>
 <p>HEARTHSENSE FLUSH GAS FIREPLACE \$1079</p>	 <p>HEARTHSENSE TOWER GAS FIREPLACE \$1259</p>	 <p>HOT POINT 16.6CF WHITE REFRIGERATOR \$399</p>	 <p>30 INCH STAINLESS STEEL GAS COOKTOP \$1059</p>
<p>0% financing for 24 months available for ORUD gas customers WAC Only limited quantities available at this price. Showroom hours M-F 8-5</p>		 <p>30 INCH STAINLESS STEEL GAS RANGE \$2739</p>	 <p>36 INCH STAINLESS STEEL GAS COOKTOP \$805</p>

Naturally Better Natural Gas

**120 S. Jefferson Circle • Oak Ridge, TN
(865) 483-1377 • www.orud.org**

Oak Ridge Utility District

120 S. Jefferson Circle
Oak Ridge, TN 37830

Phone: (865) 483-1377
Website: www.orud.org
Email: appliances@orud.org



Exclusive Information

Quarterly Luncheons

ORUD offers FREE Lunch & Learns for Builders, Developers, Architects, HVAC Contractors and Real Estate Agents.

Save the Date:

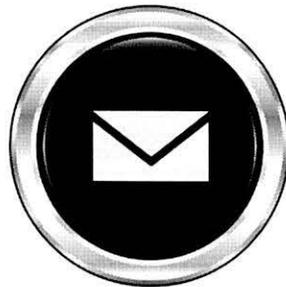
May 16, 2012

11:30 am

Oak Ridge Utility District
120 S. Jefferson Circle
Oak Ridge, TN 37830
(865) 483-1377

The Topic will be
Natural Gas Safety -

TNOneCall 811 will discuss the importance of marking gas lines when digging & we will cover carbon monoxide detectors.



Email Addresses

We want to stay connected to you. We need your email addresses to add to our database. We are compiling this list to start sending special offers & invitations to events via email. You won't want to miss out!

Please send your email address to Nikki at nbradley@orud.org.

TN811 Annual PIPE

Meeting will be on Tuesday June 19th, 2012 at 6pm at Buddy's BBQ Banquet Hall in Knoxville.

More Details to Come...



**Know what's below.
Call before you dig.**



PUBLIC
OFFICIAL/CONTRACTOR/
FIRST RESPONDER
EDUCATION

DTPH56-11-G-PHPT02

LESLIE ENGLAND/NIKKI BRADLEY

3/22/2012

MAILED OUT EDUCATIONAL INFORMATION AND HEALTH CONSULTANTS EDUCATIONAL CD

WWW.HEATHUS.COM

**ORUD Quarterly
Lunch & Learn**

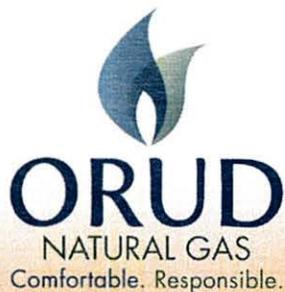
Save the Date



Oak Ridge Utility District

120 S. Jefferson Circle
Oak Ridge, TN 37830

865-483-1377
www.orud.org



**Come Have Lunch With Us &
Learn about Natural Gas
Safety!**

Quarterly Lunch & Learn

Please RSVP to Nikki Bradley at 865-220-6063 or
by email at nbradley@orud.org

Date: 05/16/2012

Time: 11:30 AM at ORUD
Lunch will be served

ORUD
120 S. Jefferson Circle
Oak Ridge, TN 37830

**Save the Date:
Wednesday May 16**

Topics will center around Natural Gas Safety

**Scott Holder from TNOneCall will speak
about safety while digging & Jeff Patterson
from ORUD will discuss carbon monoxide
detectors.**

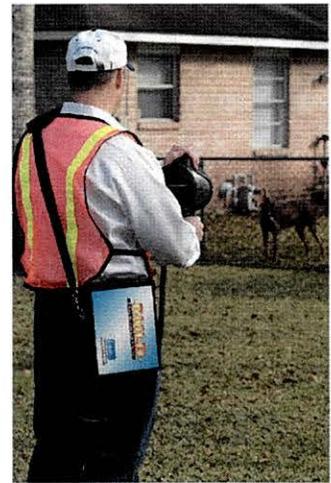


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This year ORUD will be using Remote Methane Leak Detectors. The Remote Methane Leak Detector (RMLD) can quickly and efficiently detect leaks up to one hundred feet away. Using laser technology, remote detection allows the user to survey areas that may be difficult to reach, such as busy roadways, yards with large dogs, locked gates, pipe suspended under bridges and other hard to access places.

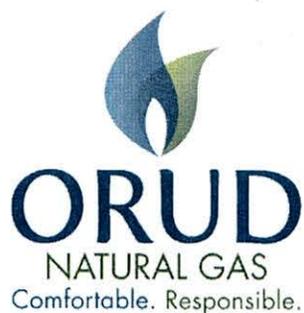
(You Tube Video: <http://www.youtube.com/watch?v=r659wXOJHYM>)

Natural gas is odorless and colorless in its natural state so as a safety precaution ORUD adds a sulfur-like odor to the natural gas to help people with a normal sense of smell to easily identify gas leaks. We ask if you smell that sulfur odor or suspect a leak contact ORUD immediately at (865) 483-1377 or call 911 for help.

DO NOT rely on your sense of smell alone to detect the presence of natural gas. In addition to the distinctive odor added to natural gas, the following signs may indicate the presence of a gas leak: a hissing, whistling or roaring sound near a gas appliance or pipeline; a damaged connection to a gas appliance; dead or dying vegetation in an otherwise moist area over or near pipeline areas; dirt or water being thrown in the air; a fire or explosion near a pipeline; and exposed pipeline after an earthquake, fire, flood or other disaster.

Here another tip, calling 811 to have all underground utilities marked prior to excavation projects will help save lives and protect property and utility infrastructure. Knowing where underground utility lines are buried helps to prevent injury, expense and penalties. The depth of utility lines may vary and multiple utility lines may exist in one area. Simple digging jobs can damage utility lines and can disrupt vital services to an entire neighborhood, harm those who dig and result in expensive fines and repair costs. Marked lines show those who dig the approximate location of underground lines and help prevent undesired consequences.

If you have any questions please contact Jeff Patterson at (865) 483-1377
For more natural gas safety information visit www.orud.org.



INVITED TO PARTNER IN
PROTECTING EVERYONE
(PIPE) MEETING

DTPH56-11-G-PHPT02

TN ONE CALL

LESLIE ENGLAND

6-4-2012 THROUGH 6-14-2012

MY MAIL AND EMAIL BLAST

Letter



2012 PIPE Partners In Protecting Everyone

Sponsoring Companies:

Knoxville Utilities Board
Navitas Utility Corporation
Oak Ridge Utility District

Powell Clinch Utility District
East Tennessee Natural Gas

Harriman Utility Board
Plantation Pipe Line

The above sponsoring companies, along with Tennessee 811, would like to extend an invitation to your organization to attend the 2012 Tennessee Emergency Response & Pipeline Safety Awareness Seminar.

The purpose of this program is to discuss pipeline and distribution safety, damage prevention and how to handle a pipeline emergency in Anderson, Knox, Campbell, Roane, Grainger and Union Counties. This brief meeting will be held on:

June 19, 2012
Bearden Banquet Hall
5806 Kingston Pike
Knoxville, TN 37923

Registration: 5:30 p.m.
(followed by dinner & presentation)

Prior to the dinner and presentation there will be informational displays provided by the sponsoring companies with representatives present to answer any of your questions. At the end of the presentation we will be awarding two \$50 cash door prizes.

For this program to be effective, we need your participation. Please make every effort to attend. All persons from your organization are invited. If you can't attend, please send a representative for your organization. If you have any additional questions, please contact the receptionist at Tennessee 811 at 615-367-5947.

There is no charge for the dinner or the program, **but we do need RSVP's** to ensure we have enough food and space.

(There is no limit to how many individuals can attend.)

RSVP for the Knoxville Meeting prior to June 12, 2012

Register on line @ <http://pipe.tennessee811.com>

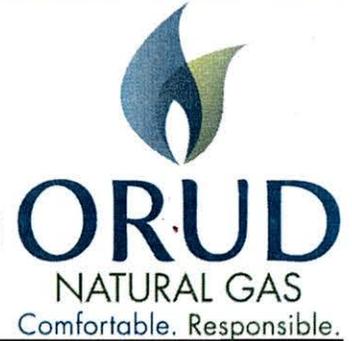
If you don't have access to the internet, you may RSVP by either of the following:
Fax to 615-366-5021 or Phone to 615.367.5947

Email

2012 PIPE

Partners In Protecting Everyone

Very Important to attend!
This dinner & training is at no charge to you or your employees.



Oak Ridge Utility District, the remaining sponsoring companies and Tennessee 811, would like to extend an invitation to you, your co-workers and your organization to attend the 2012 Tennessee Emergency Response & Pipeline Safety Awareness Seminar.

The purpose of this program is to discuss pipeline and distribution safety, damage prevention and how to handle a pipeline emergency in Anderson, Knox, Campbell, Roane, Grainger and Union Counties. This brief meeting will be held at:

5:30 PM

June 19, 2012

Bearden Banquet Hall

5806 Kingston Pike

Knoxville, TN 37923

Sponsoring Companies:
Oak Ridge Utility District
Knoxville Utilities Board
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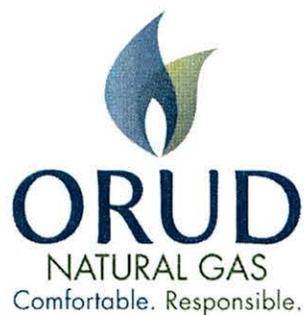
Again, there is ***no charge*** for the dinner or the program, **but we do need RSVPs** to ensure we have enough food and space.

RSVP for the Knoxville Meeting prior to June 12, 2012

Register on line at: <http://pipe.tennessee811.com/R.S.V.P.>

If you do not have access to the internet, you may RSVP by either of the following: Fax to 615-366-5021 or Phone to 615.367.5947





CONTRACTORS / PUBLIC
OFFICIALS / EMERGENCY
RESPONDERS MEETING

DTPH56-11-G-PHPT02

LESLIE ENGLAND / NIKKI BRADLEY / RAESHELL MAPLES

5/16/2012

Leslie England

From: Leslie England
Sent: Wednesday, May 16, 2012 2:01 PM
To: Staff
Subject: Builders / HVAC Contractors / Real Estate Agents Luncheon

Just and FYI – today we went over API RP 1162 at the luncheon.

This included an explanation of what RP 1162 is and ORUD's responsibility to educate the public, contractors, excavators and public officials on it. We discussed pipeline safety, what to do in case of a gas leak, or emergency and showed an 811 video that was recommended by Scott Holder from TN One Call. We handed out material on Natural gas safety and line locate color code charts.

We discussed the properties of gas and the ordorization process. When discuss emergency calls and the RMLD technology that we currently have.

We also discuss the showroom, project safe and the service line extension policies, which was responded to very favorably.

We had numerous compliments:

Belinda Aurin complimented Raeshell, because Belinda had sent a new home owner to ORUD to purchase 2 appliances that she could not have gotten without being able to add it to your bill. The Homeowner thanked Belinda for sending her to Raeshell..

Darryl from Linda Brown Realty complimented the operation department, because when they came to relocate the meter for him they found some small gas leaks in the house piping and repaired them while they were on site.

Linda Brown stated that our emergency crews came to one of her homes and she could not believe how fast they got to the site and professionalism once there.

There was one issue brought up by Keith Lay and it was about marking lines, he asked why the line markings have to be done in a manner that they are overly marked on curbs and asphalt in areas. I told him I would pass this on to Jeff to answer.

Others in the crowd stated – it was not an issue for them, but I still feel we need to respond to Mr. Lay.

Leslie England
Director of Customer Service
Oak Ridge Utility District
120 S. Jefferson Circle



ADDED RMLD TO WEBSITE

DTPH56-11-G-PHPT02

LESLIE ENGLAND

3/27/2012

WWW.ORUD.ORG

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Safety

If you **SMELL AN ODOR** or suspect a leak call **865-483-1377** or **1-888-483-1377** immediately. 24 hrs. 7 days a week



Know what's below. Call before you dig.

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Get a Natural Gas Grill and Add it to Your Bill! (see how to qualify 12 months at 0% interest) Call 865-483-1377 TODAY!

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For 24-hour emergency and customer service, please call 865-483-1377 or 1-888-483-1377. Hours of Operation: Monday - Friday 8 AM - 5 PM

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