# Leak Detection Workshop

Date: April 29-30, 2003

#### **Course Description:**

The **Leak Detection workshop** is intended for those individuals, who are a beginner in the field to someone, who has good understanding on what is going on and wants to know more about tank safety and spill prevention. The workshop is a 2-day event at the Missouri Department of Natural Resources Regional Office in Lees Summit, Missouri. The course will be featuring **Ken Wilcox & Associates, Simmons** and **Tanknology**, as our featured lecturers.

**Ken Wilcox and Associates** will be discussing the "**Principles of Leak Detection in tanks and pipelines**" and will furnish EPA's current reference manual and later at his facility, hands-on training on how to test the various leak detectors on today's market.

**Simmons will discuss "Inventory Control"; "Statistical Inventory Reconciliation and SIR combined with automation"** and will briefly discuss tank and line testing with mechanical and electronic line leak operational testing" and how SIR relates to release detection.

**Tanknology will discuss "Cathodic Protection, and Stage I & II Vapor Recovery Testing"**; and will briefly discuss how these test relates to tank and line testing with mechanical and electronic line leak operational testing.

This course will give the attendee the opportunity to have hands on experience and see how the equipment works and review simple trouble shooting techniques. We encourage the audience to ask questions and discuss what they seen in the field with our guest lecturers.

Registration available at: Mid-America Regional Council web-page: <u>http://www.marc.org</u> or call John Staples at 816.474.4240 or Marty Vodicka at the Missouri Department of Natural Resources at 816.622.7009 for any questions.

Attendance is limited to 30 students. Cost: \$150.00 per Student

Location of Training:

Missouri Department of Natural Resources Kansas City Regional Office 500 NE Colbern Rd Lees Summit, MO 64086 816. 622.7000

From I-70 take Hwy-291 South to the Colbern Street exit and make a right onto Colbern Rd. The Regional Office entrance is just pass the Missouri Department of Transportation Office (the first building) on the right (across from Ray Steven's Car lot) and the Regional Office is located on the North-side of the parking lot. See attach map for location.

#### Ken Wilcox and Associates Facility 1125 Valley Ridge Drive Grain Valley MO 816.443.2494

From the Regional Office, take Hwy-291 North to I-70 East to the Grain Valley exit, take a left onto Buckner Tarsney Road and another left, West on the North Outer Road and make a right hand turn on Valley Ridge Drive and KWA is on the right at 1125. See attach map for location.

The agenda is subject to change.

# LEAK DETECTION WORKSHOP AGENDA

After the morning lecture the class will be divided into two groups and will be back together the following day for the final lecture:

# DAY ONE: April 29

# Morning: Teams one & two will meet at the Missouri Department of Natural Resources Regional Office at 8:00 am. (will meet at the Regional Office)

Principles of Leak Detection by Ken Wilcox and Associates (KWA)

#### Tanks

Automatic Tank Gauges Precision Testing SIR CITLDS Interstitial monitors

#### Pipelines

Mechanical devices Electronic devices External Monitors (Non-volumetric)

#### Third Party Evaluations and what they mean

Use of the National Workgroup on Leak Detection Evaluation List How they are contacted Limitations of these evaluations

#### How to tell if a leak detector is working

Use of the EPA Manual Use of the KWA Manual Other training material

### Afternoon: Team One (will meet at the KWA facility)

### Hands-on experience with ATG's and pipeline leak detectors

How to get information from an ATGS. How to test mechanical leak detectors Functional Test Leak rate test for 3 gal/hr Non-volumetric methods Interstitial monitors Vacuum Pressure Types of switches Product sensitive cables Others

## Afternoon: Team Two (will meet at the Regional Office)

#### Simmon's SIR

Methods of Leak Detection Inventory Control Statistical Inventory Reconciliation SIR combined with automation

# DAY TWO: April 30

Morning at 8:00 am: Team Two (will meet at the KWA facility)

#### Hands-on experience with ATG's and pipeline leak detectors

How to get information from an ATGS. How to test mechanical leak detectors Functional Test Leak rate test for 3 gal/hr Non-volumetric methods Interstitial monitors Vacuum Pressure Types of switches Product sensitive cables Others

## Morning: Team One at 8:00 am (will meet at the Regional Office)

#### Simmon's SIR

Methods of Leak Detection Inventory Control Statistical Inventory Reconciliation SIR combined with automation

## Afternoon at 1:00 pm: Teams One & Two (will meet at the Regional Office)

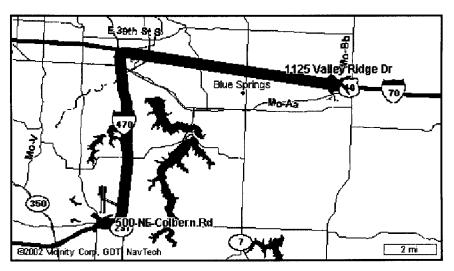
#### Tanknology

Cathodic Protection Tank and Line Precision Testing Mechanical and electronic Line leak detector operational testing Stage I & II Vapor recovery testing

# Directions from the Kansas City Regional Office to the Ken Wilcox Facility

## From:

500 NE Colbern Rd, Lees Summit, MO 64086-4711 **To:** 1125 Valley Ridge Dr, Grain Valley, MO 64029-9094



The estimated travel time is 0 hours, 16 minutes for 16.63 miles of travel, total of 5 steps.

Step	Directions	Elapsed Distance
1	Begin at 500 NE Colbern Rd on NE Colbern Rd and go 0.6 miles	0.6
2	Turn left on ramp to <b>I-470</b> and go 6 miles	7.0
3	Turn right on ramp to <b>I-70</b> and go 9 miles	15.8
4	Continue on ramp to Mo-Bb,S Buckner Tarsney Rd and go 0.3 miles	16.1
5	Turn left on N Outer Rd and go 0.5 miles to 1125 Valley Ridge Dr	16.6
		NYTECH 1 80489

# Location of the Missouri Department of Natural Resources Kansas City Regional Office

500 NE Colbern Rd Lees Summit, MO 64086-4711

