



Kentucky Rural Water Association

Helping water and wastewater utilities help themselves

April 17, 2009

2009-00166

RECEIVED

Mr. Jeff Derouen, Executive Director
Public Service Commission
P. O. Box 615
Frankfort, KY 40602-0615

APR 22 2009

PUBLIC SERVICE
COMMISSION

Dear Mr. Derouen:

Kentucky Rural Water Association will host its 2009 Operator Expo at the Nelson County Fairground in Bardstown, Kentucky on May 20-21, 2009. We would like to request that this training be approved for commissioners as referenced in HB-75, KRS 74.020.

Please find enclosed a training summary, which includes a timed agenda and a description of each topic which is followed by a brief speaker bio. Approval for this training session has also been submitted to the Kentucky Boards of Certification for Water Treatment and Distribution System Operators and Wastewater System Operators. A copy of that application is included.

With this letter and enclosures, Kentucky Rural Water Association is requesting the approval of six (6) hours for commissioner and board member training. If additional information is needed, please do not hesitate to call.

Sincerely,

Clem Wethington
Education Director

jc

Enclosures (5)

**Kentucky Rural Water Association
2009 Operator Expo
Nelson County Fairgrounds, Bardstown, Kentucky
May 20 & 21, 2009**

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APR 22 2009

PUBLIC SERVICE
COMMISSION

Training Summary/Timed Agenda/Instructor Bio

2009-00166

Learning Objective: The objective of these sessions is to introduce and explain processes and procedures that will enhance operations of water and wastewater utilities. Attendees will learn how various products can be utilized and how to develop and implement procedures to operate equipment more efficiently. Through classroom instruction and small group demonstrations, water and wastewater personnel will obtain information that will add to their knowledge and have a positive impact on job performance.

Criteria for Training Credits: Attendees will be granted credit for actual time attending or participating in the training sessions. The EXPO will offer 8.5 hours for drinking water and wastewater operators; however, the maximum number of training credit hours that can be earned each day will be three (3) hours. The maximum number of training credit hours for this two day course will be six (6) hours. An individual sheet will be given to each attendee to record their attendance. This sheet will be stamped and initialed by Kentucky Rural Water Association (KRWA) personnel after the completion of each session. Individuals must return the completed sheet to KRWA to receive credit for attendance

DAY 1 – May 20, 2009

Session 1 – Site C 1:30 PM – 2:30 PM 1.0 hrs DW / WW

Topic: E-Coli Analysis and Waterborne Pathogens - Christal Wade, WATERS Lab-WKU

Description: This session will focus on the methods for E-Coli analysis as required by the KPDES permit and EPA water quality requirements. This presentation will include a brief introduction to microbiology and different types of waterborne pathogens such as E-Coli, Giardia, Hepatitis viruses, etc.

Instructor Bio: Christal Wade works for the WATERS Laboratory located at Western Kentucky University. WATERS provides testing services to water and waste water treatment facilities, industries, and the general public. The laboratory is state-certified by the Commonwealth of Kentucky to perform microbiological testing on drinking water. Christal performs analysis on all types of water, including drinking water, storm water and wastewater.

Session 2 – Site C 2:45 PM – 3:45 PM 1.0 hrs DW / WW

Topic: E-Coli Analysis and Waterborne Pathogens – Continuation of Session 1

Session 3 – Site C 4:00 PM – 5:00 PM 1.0 hrs DW / WW

Topic: Excavations – Avoiding Underground Utilities – Tim Vaughn, Kentucky 811

Description: This one hour session will focus on the regulations concerned with excavation, and how to go about determining who needs to contact and how far in advance an operator needs to call the other underground utilities such as (water, gas, electric, telephone, and etc.). Even water and wastewater treatment plants have other underground utilities on their premises and on occasion excavations need to be conducted at the plants. Water lines and wastewater collection systems are not the only utilities buried underground in rural and urban areas. Knowing where other utilities are located is critical for getting a job done safely, on time, and on budget. Furthermore, calling before you dig is required by regulations.

Instructor Bio: Tim Vaughn is the spokesperson for the Kentucky 811 Program. In this capacity Tim travels throughout the state to provide instruction to industries, utilities, law enforcement groups, schools, and many other organizations to educate on the safety issues and regulatory requirements of anyone planning to perform excavations.

DAY 2 – May 21, 2009

Session 4 – Site A 8:00 AM – 8:30 AM 0.5 hrs DW / WW

Topic: Hydro-Excavators – Mike Renner, Jack Doheny Supply

Description: Hydro-excavation is a non-mechanical and non-destructive process that combines pressurized water and air to excavate materials where water or wastewater lines need to be installed or repaired. This process allows for a quick, clean and precise excavation that requires less backfill and labor than traditional digging methods. Hydro-excavation also has a lesser impact on the environment and with a controlled flow water stream you can excavate materials with surgeon-like accuracy. Hydro-excavators only remove the necessary material unlike an excavator or back-hoe bucket.

Instructor Bio: Mike Renner is the Marketing Coordinator for the Jack Doheny Supply facilities in Indianapolis. He and other technicians employed by the Jack Doheny Company undergo regular and extensive factory training on all product lines, to ensure that their customers have access to knowledgeable staff that know the products and are qualified to offer the best advice and support on all types of equipment used in the water and wastewater industry.

Session 5 – Site A 8:45 AM – 9:15 AM 0.5 hrs DW

Topic: Fire Hydrant Maintenance – Jim Doyle, Inspection, Testing, and Maintenance, Inc.

Description: This session will point out similarities common to all fire hydrants that work with or against pressure in regards to maintenance. Using a display/break-away fire hydrant, along with posters and schematics of several manufacturers, instruction will be provided on the inner workings and basic function of individual parts. A "Fire Hydrant Maintenance Checklist" hand-out will be used to discuss each step in detail to emphasize the maintenance aspect to promote the longevity of hydrants.

Instructor Bio: Jim Doyle is the president of Inspection, Testing, & Maintenance, Inc. (I.T.M. Inc.). For several years Jim has been providing service to water systems by testing meters and performing inspections and repairs to hydrants and other water system equipment.

Session 6 – Site B 8:45 AM – 9:15 AM 0.5 hrs DW / WW

Topic: Pump Maintenance – Ronnie Eaton, Reynolds, Inc.

Description: Reynolds, Inc. offers design and construction services for water/wastewater treatment plants, pump stations, water/wastewater and process pipelines, wells and groundwater source studies, sewer rehabilitation, and concrete forming. Pumps are used in almost all of these applications. The Service Division of Reynolds provides maintenance and replacement of pumps and pumping equipment. This Management Program is set up to include scheduled evaluations which monitor the performance of pumps and protects against problems caused by over pumping, abnormal drawdowns, and/or premature failure of pumping equipment.

Instructor Bio: Ronnie Eaton has been employed by Reynolds, Inc. for nearly 30 years. Within the Service Division of Reynolds, Inc. Ronnie assists with providing maintenance and replacement of pumps and pumping equipment.

Session 7 – Site C 8:45 AM – 9:15 AM 0.5 hrs DW / WW

Topic: GIS and Electronic Mapping – Ron Householder, MapSync, Inc.

Description: This session will demonstrate how MapSync provides integrated mapping and information solutions with GIS/GPS equipment, custom software, services, and training. This information will provide solutions for state and local government, municipal and rural utilities and emergency service providers as they develop their GIS (Geographic Information System), collect data with GPS (Global Positioning System), and use software to generate electronic mapping of water and wastewater systems.

Instructor Bio: Ron Householder is the Director of Marketing for MapSync. In this capacity Ron offers professional training for GIS and GPS applications. MapSync's primary training facility is located in Lexington, Kentucky. They also provide class-room training in neighboring communities and states as requested.

Session 8 – Site A 9:30 AM – 10:00 AM 0.5 hrs WW

Topic: Smoke Testing – Tom Lewis, Lewis Municipal Sales

Description: This session provides information to manage a complete smoke testing program. Efficient and cost effective, smoke testing has become a world-wide standard for finding leaks in sewer and plumbing systems. By forcing smoke-filled air through a sewer or plumbing system, leaks can be quickly detected as smoke escapes through problem areas.

Instructor Bio: Tom Lewis is the founder of Lewis Municipal Sales. Founded in 1999, Lewis Municipal Sales serves municipalities & contractors engaged in the construction and maintenance of infrastructure for water, sewer and natural gas service.

Session 9 – Site B 9:30 AM – 10:00 AM 0.5 hrs DW / WW

Topic: Distribution/Collection Maintenance – Roger Riddle, JCM Industries

Description: This session will illustrate the various types of fittings and products used to install and repair pipe networks within a water distribution system or wastewater collection system. The instructor will also demonstrate tools and proper procedures when installing these products.

Instructor Bio: Roger Riddle is employed by JCM Industries and has conducted numerous training events on the use of pipeline repair products. JCM Industries is a leading fitting manufacturer and is a member of many of the organizations and associations serving the water and wastewater industry including the Water and Wastewater Equipment Manufacturers Association and the Water and Sewer Distributors of America.

Session 10 – Site C 9:30 AM – 10:00 AM 0.5 hrs DW / WW

Topic: Pumps and Motors – Danny Vance, Service Pump & Supply

Description: This session will demonstrate the many types of pumps used in the water and wastewater industry, from small chemical feed pumps to solids handling sewage pumps. The instructor will explain the benefits of each type of pump and explore some of the troubleshooting techniques. An explanation of how pumps and motors need to be installed will also be included. In addition, attendees will be provided details on how to protect motors, including some innovative motor repair processes.

Instructor Bio: Danny Vance is the President of Service Pump & Supply in Huntington, West Virginia. As President, Danny has been very instrumental in providing sales, service, and training to water and wastewater personnel in regards to pumps and motors. He has participated in numerous training events for many organizations and has conducted classroom training at his facilities for water and wastewater operators.

Session 11 – Site A 10:15 AM – 10:45 AM 0.5 hrs WW

Topic: Grinder Sewer Pump Systems – Josh Cravins, Wascon, Inc.

Description: Properly maintained grinder pumps should be able to handle wastewater from a variety of sources. However, some chemicals and substances can adversely impact a grinder pump and may cause safety hazards. This session will explain some of do's and don'ts of operating a grinder pump system. The session will also demonstrate some of the new technologies in the grinder pump systems.

Instructor Bio: Josh Cravins is the Sales Manager for Wascon, Inc. and has had many years of experience in providing products and service to the water and wastewater industry. He has literally grown up in the business since his family started the company in 1980.

Session 12 – Site B 10:15 AM – 10:45 AM 0.5 hrs DW / WW

Topic: Sampling Procedures – Lyndon Johnson, Appalachian States Analytical

Description: This session will focus on the sampling requirements and procedures for water and wastewater systems. The presentation will include proper sample collection and preservation methods, holding times for water and wastewater samples, EPA approved methods for water and wastewater samples, and laboratory procedures and reporting requirements.

Instructor Bio: Lyndon Johnson is employed by Appalachian States Analytical, a laboratory that performs analyses for water and wastewater systems in Kentucky and other states. Lyndon has had extensive experience in the collection and analysis of a variety of sample types and proper laboratory procedures.

Session 13 – Site C 10:15 AM – 10:45 AM 0.5 hrs DW

Topic: Leak Detection and Water Audits– Barry Back

Description: This session will explain how to set up a water accountability and leak detection program. The session will cover topics that will include comparison of water produced or purchased with water sold, water accountability procedures, leak detection methods, and types of leak detection equipment.

Instructor Bio: Barry Back was employed by Kentucky Rural Water Association for 25 years. As a Circuit Rider, Barry assisted water systems throughout the state with leak detection and was instrumental in establishing the leak detection programs offered by KRWA. Barry recently retired after working with Bell Engineers for almost 2 years.

Session 14 – Site A 11:00 AM – 11:30 AM 0.5 hrs DW

Topic: Tank Inspections – Jay Hoffman, Wet or Dry Tank Inspections

Description: This session will focus on how the operation and maintenance of water tanks affect water quality. The presentation will include instruction on preventing contamination and intrusions in storage tanks, water quality problems in tanks, when and how tanks should be inspected, and the importance of tank mixing systems.

Instructor Bio: From the time he was a child, Jay Hoffman has been involved with tanks while working in his father's tank repair business. He has performed every task of a restoration process. As the owner of Wet or Dry Tank Inspections, Jay currently specializes in tank inspections and installation of tank mixing systems.

Session 15 – Site B 11:00 AM – 11:30 AM 0.5 hrs DW / WW

Topic: Pipeline Repair – Bill Ofsanik, Smith-Blair, Inc.

Description: Pipes, of all material types and dimensions, are used in the water and wastewater industry. Treatment facilities, water distribution systems, sewage collection systems and force mains all utilize pipes to transport materials or products. Connections to, restraint of, and repair of these pipe networks are critical to the installation and maintenance responsibilities. This session will demonstrate some of the products used in the water industry to keep the pipe networks functional.

Instructor Bio: Bill Ofsanik is a Territory Manager for Smith-Blair serving lower Michigan, Indiana, Kentucky, and Ohio. Smith-Blair, Inc. is an industry leader in manufacturing pipe products. Their product lines include joint restraints, repair clamps, tapping sleeves, service saddles, expansion joints, couplings, flanged coupling adapters and more.

Session 16 – Site C 11:00 AM – 11:30 AM 0.5 hrs WW

Topic: Hydrogen Sulfide Control – Stewart North, Source Technologies, LLC

Description: This session will provide information on some of the methods used for the control of hydrogen sulfide in wastewater collection systems and the wastewater treatment plants. Points in this discussion will include chemical addition and feed rate calculations, preventing the formation of hydrogen sulfide, using compressed air or blower supplied air for the treatment of hydrogen sulfide.

Instructor Bio: Stewart North is Vice President of Source Technologies, LLC. The company uses the latest cutting edge technologies that apply to municipal wastewater treatment facilities, industrial pretreatment activities and environmental restoration.

Session 17 – Site A 11:45 AM – 12:15 PM 0.5 hrs DW / WW

Topic: System Controls – Jeff Morrison, C.I. Thornburg Co., Inc.

Description: This session will explain how telemetry and SCADA can be utilized by water and wastewater systems. Telemetry and SCADA can be used to operate and monitor treatment processes, perform sampling and monitoring, conduct operation functions such as controlling chemical feed systems, and activate security and alarm systems. The presentation will explain the basic components such as transmitters, receivers, sensors, and means of conveyance and how to integrate with existing equipment and applications.

Instructor Bio: Jeff Morrison is a sales representative for the family owned C.I. Thornburg Company. The Morrison family has owned the company since 1958. Jeff currently handles inside sales at the Lexington, Kentucky Branch. Since being involved with the water and wastewater industry from childhood he is well informed of the needs of the industry.

Application for Approval of Courses for Continuing Education Credit

Kentucky Division of Compliance Assistance / Operator Certification Program

14 Reilly Rd., Frankfort, Kentucky 40601

I. Course Sponsor Information

A. Sponsoring Organization (school, business, association, etc.)

Kentucky Rural Water Association

B. Key Contact Person:

Name & Title: **Clem Wethington** **Education Director**

Address **P. O. Box 1424**

City, State & Zip **Bowling Green, KY 42102-1424**

Phone & Fax **270.843.2291** **270.796.8623**

Email **j.cole@krwa.org**

Web Page **www.krwa.org**

II. General Course Information

A. Title: **Operator EXPO**

B. Location & Date/s: **Nelson Co. Fairgrounds, Bardstown, KY** **May 20-21, 2009**

C. Cost per Student or Group **\$45/person**

D. Delivery Format or Media (Check those that apply):

- | | | | |
|--|-------------------------------------|--------------------------------------|---|
| <input checked="" type="checkbox"/> Classroom | <input type="checkbox"/> Web/Online | <input type="checkbox"/> Laboratory | <input type="checkbox"/> Exhibition |
| <input type="checkbox"/> Field | <input type="checkbox"/> CD-ROM | <input type="checkbox"/> Video/Audio | <input type="checkbox"/> Correspondence |
| <input type="checkbox"/> Other (Explain) _____ | | | |

E. Continuing Education Credits (hours) Requested for Target Audience:

Drinking Water Treatment &/or Distribution Operator Hours **8.5 ***

Wastewater Treatment &/or Collection Operator **8.5 ***

*Maximum hours each day is 3 for a total of 6 hours maximum for attending the EXPO

III. Required Items (must be attached to submittal, check off as completed)

- A. Course Learning Objectives
- B. Criteria for Successful Completion by Operators
- C. Agenda (Timed with instructors identified & brief description of topics)
- D. Credentials for all Instructors

IV. Additional Attachments (required for distance learning courses, optional for other training)

- A. Instructional Design (Developed by whom / their credentials)
- B. Curriculum Content (Subject matter experts / their credentials)
- C. Needs Analysis of Participants (Designed by whom / methods / results)
- D. Field Testing of Course (Developed & conducted by whom / audience / results)
- E. Ongoing Course Evaluation (Methods for feedback & assessment / results to date)
- F. Support Available to Participants (instructions / validation of content / references)
- G. List of colleges, universities, regulatory agencies, etc. that have awarded credits for the course (provide semester hours and/or continuing education awarded).
- H. Required Assignments &/or Examinations (type, passing score, etc.)
- I. Mandatory Time Constraints (deadlines, granting of extensions, etc.)
- J. Documentation of Results to Students (copy of certificate, letter, etc.)
- K. Security Procedures (Operator identification, tracking of hours, exam proctors, etc.)

V. Signature of Sponsor's Contact Person

I confirm that all information provided with this application is accurate to the best of my knowledge. A complete list of attendees and credits to be awarded to them will be forwarded on a "Continuing Education Activity Report" to the Kentucky Division of Water (within 30 days of completing the course when possible).

Printed Name & Title Clem Wethington Education Director

Signature & Date *Clem Wethington* April 16, 2009

For Division of Water Use Only

Evaluated by:

- Drinking Water Board Date _____
- Wastewater Board Date _____

- This course has been approved for the following continuing education credits (hours):
 - Drinking Water Treatment Operator Hours _____
 - Drinking Water Distribution Operator Hours _____
 - Total DW Hours (if for both treatment and distribution) _____
 - Wastewater Treatment &/or Collection Non-process Control Hours _____
 - Wastewater Treatment Process Control Hours _____

- Consideration of this course has been tabled or denied.

Reason Tabled (additional information needed)

Reason Denied

Reconsidered by:

- Drinking Water Board Date _____
- Wastewater Board Date _____

Results of Reconsideration (Provide narrative here and update cells above):

