

Kentucky Rural Water Association

Helping water and wastewater utilities help themselves

May 11, 2010

Case No. 2010-00199

RECEIVED

MAY 14 2010

PUBLIC SERVICE
COMMISSION

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

Dear Mr. Derouen:

Kentucky Rural Water Association will host its 2010 Operator Expo at the Nelson County Fairground in Bardstown, Kentucky on May 26-27, 2010. We would like to request that this training be approved for commissioners as referenced in regulation 807 KAR 5:070.

Please find enclosed a training summary, which includes a timed agenda, a description of each topic, and a brief speaker bio. At this time we do not have copies of any written material that may be provided during the individual sessions; however, if handouts are distributed a copy will be provided to the commission. 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 up to six (6) hours for water district commissioner training. If additional information is needed, please do not hesitate to call.

Sincerely,

Clem Wethington
Education Director

Enclosures (6 packets)

SPONSOR: Kentucky Rural Water Association (KRWA)
COURSE TITLE: 2010 Operator Expo
LOCATION: Nelson County Fairground, Bardstown, Kentucky
DATES: May 26 - 27, 2010

Learning Objective: The objective of these sessions is to introduce processes and procedures that will enhance operations of water and wastewater utilities. Through classroom instruction and small group demonstrations, attendees will gain knowledge of products, services and procedures that will add to their knowledge and have a positive impact on job performance.

Criteria for Training Credits: Attendees will be granted continuing education credit for actual time attending training sessions. The EXPO will offer a total of 9.5 hours for drinking water and 8.0 for wastewater; however, the maximum number of training credit hours that can be earned will be 6.0 for drinking water (3 hours on Wednesday and 3 hours on Thursday) and 5 hours for wastewater (2 hours on Wednesday and 3 hours on Thursday). An individual sheet will be given to each attendee to record attendance at each session. This sheet will be stamped by KRWA personnel after the completion of each session and must be turned in at the close of the EXPO in order to receive continuing education credit.

Training Summary/Timed Agenda/Instructor Bio

DAY 1 – May 26, 2010

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

Topic: Water Loss Reduction Through Pressure Management – Mark Magda, Singer Valve

Description: This session will demonstrate how a pressure management program can be developed and implemented to reduce the frequency of ruptures in water mains. The session will explain how pressures vary from day to night and how customer usage patterns can be used to determine pumping schedules.

Instructor Bio: Mark Magda is the East Coast Regional Sales Manager and the Operations Manager for Singer Valve, LLC located in Charlotte, North Carolina. He has over 15 years of experience in the valve industry. Mark is currently a member of the AWWA Water Loss Control Committee and helped to develop the ILA Method of Water Loss Calculation.

Session 2 – Site C 2:40 PM – 3:10 PM 0.5 hrs **WW**

Topic: Introduction to Low Pressure Sewer Systems – Marvin Springer, Environment One Corp.

Description: This session will explain the purpose and background of low pressure sewer systems and the design of grinder pumps. The instructor will explain the differences between the various pumps that are available and the advantages and disadvantages of each. The session will also cover many of the aspects to consider or avoid when designing a low pressure sewer system.

Instructor Bio: Marvin Springer is the Regional Sales Manager and the Operations Manager for the Environment One Corporation. Marvin began his career in the wastewater industry at the age of 16 as a service technician. He has over 20 years of experience in the construction and maintenance of grinder pump systems. Marvin is currently a certified service technician for EONE with almost 20 years of experience.

Session 3 – Site C 3:20 PM – 3:50 PM 0.5 hrs **DW**

Topic: Converting From Dry to Liquid Permanganate – Corey Harper, SHK Enterprises, Inc.

Description: Potassium permanganate is used primarily to control taste and odors, remove color, control biological growth in treatment plants, and remove iron and manganese. In a secondary role, potassium permanganate may be useful in controlling the formation of THMs and other DBPs by oxidizing precursors and reducing the demand for other disinfectants. Potassium permanganate is only supplied in dry form. A concentrated solution is generated on-site for water treatment applications. This session will provide instructions on converting from dry to liquid permanganate feed.

Instructor Bio: Corey Harper is one of the co-owners of SHK Enterprises. Corey has been involved with the water industry since the time of his infancy as he would accompany his father who worked at a water treatment facility. Corey has assisted many water systems with the setup and use of various treatment chemicals. He has presented instruction at numerous training events for the Kentucky Water and Wastewater Operators Association, the Kentucky Rural Water Association, AWWA and other water industry association meetings.

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

Topic: Chemical Feed Technologies – Todd Bennett, C.I. Thornburg Co., Inc.

Description: This session will provide information on the various types of chemicals and chemical feed systems used in the water and wastewater industry. The session will provide instruction on how to feed liquid, dry, tablet, and gas chemicals. Instruction will be provided on the operation and maintenance on pumps, dispensers, and chlorinators.

Instructor Bio: Todd Bennett attended West Virginia University Institute of Technology, graduated with a BS Degree in Electrical Engineering in 1996. He has worked at C.I. Thornburg Co., Inc. as Sales Engineer since 1997, was Service Department Manager for CITCO in 2005, and became the Engineered Products Manager responsible for Engineered Products Division Staff, Panel Shop, Service Department and WV Contractor Sales in 2007.

Session 4B – Site C 5:00 PM – 5:30 PM 0.5 hrs DW / WW

Topic: Wireless Basics – Terry Roseberry, Banner Engineering

Description: This session will provide information on the use of wireless technology to control equipment and monitor parameters in the water and wastewater systems. The session will include: radio (RF) basics, network applications, site surveys, battery and solar power options, and real applications.

Instructor Bio: Terry Roseberry graduated from Blue River Valley High School and attended Indiana University East. Terry spent three years in the United States Signal Corp where he received electronic training for Microwave Communications. He worked on microwave communication systems in Italy for two years. Terry has been involved in electrical controls in the industrial world since 1978 and has been associated with Banner Engineering for over 25 years. He currently is the Business Development Manager –Wireless Products for IN, KY, OH, TN, and WV.

DAY 2 – May 27, 2010

Session 5 – Site A 8:00 AM – 8:30 AM 0.5 hrs DW / WW

Topic: Hydro-Excavators – Tom Lewis, Lewis Municipal Sales

Description: A hydro excavation machine can be a valuable tool for a water or wastewater utility. Tasks this tool can accomplish include: exposing/locating lines, valve box clean out, meter box clean out, excavation for setting boxes and vaults, setting poles and sign posts, water line repairs, clean lift stations, clean manholes, clean treatment plants, clean out laterals, exercising valves, and exercising fire hydrants.

Instructor Bio: Tom Lewis is the founder and owner of Lewis Municipal Sales. Since its beginning in 1999, the company has served municipalities & contractors engaged in the construction and maintenance of infrastructure for water, sewer and natural gas service in Michigan, Indiana, Kentucky and West Virginia.

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

Topic: Wireless Applications – Terry Roseberry, Banner Engineering

Description: This session will provide a hands-on demonstration on the use of wireless technology to control equipment and monitor parameters in the water and wastewater systems. The demonstration will provide instruction on: radio (RF) basics, network applications, site surveys, battery and solar power options, and real applications.

Instructor Bio: Terry Roseberry graduated from Blue River Valley High School and attended Indiana University East. Terry spent three years in the United States Signal Corp where he received electronic training for Microwave Communications. He worked on microwave communication systems in Italy for two years. Terry has been involved in electrical controls in the industrial world since 1978 and has been associated with Banner Engineering for over 25 years. He currently is the Business Development Manager –Wireless Products for IN, KY, OH, TN, and WV.

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

Topic: Tank Alternatives – Kristin Tippey, Kentucky Glass Lined, Inc.

Description: This session will provide information on glass lined tanks used in the water and wastewater industry. The unique glass fused to steel coating enables tanks to be used in a wide variety of applications such as containment of potable water, wastewater, leachate, and other applications. The tanks are used for clarifiers, chlorine contact basins, equalization filters, sludge holding tanks, anaerobic digesters, leachate containment, and dry product storage for agricultural, industrial and municipal applications.

Instructor Bio: **Kristin Tippey** is associated with the Kentucky Glass Lined Tank Systems in Lexington. Kentucky Glass Lined Tank Systems, Inc. markets, installs and services several types of tanks for applications in potable water and wastewater.

Session 8 – Site C 8:45 AM – 9:15 AM 0.5 hrs **WW**

Topic: Dealing With Hydrogen Sulfide – Timothy Aulick, Aulick Chemical Solutions, Inc.

Description: This session will explore the issue of hydrogen sulfide within a sewer system. Issues that will be addressed will include: causes of hydrogen sulfide, corrosion to plant equipment, hydrogen sulfide gases versus other odorous gases, human health effects, caustic acid and sulfuric acid versus hydrogen sulfide, monitoring and alarm systems.

Instructor Bio: **Timothy Aulick** received his degree in Chemistry from the University of Kentucky and is the President of Aulick Chemical Solutions, Incorporated (ACS). ACS is a chemical design and manufacturing company specializing in odor/corrosion control and specialty chemistries to reduce TSS and other criteria for wastewater treatment. ACS focuses on the problems customers are having in their facility. Timothy Aulick travels across the United States working with wastewater facilities and is involved in the research and development of new products for wastewater treatment.

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

Topic: Emergency Dewatering – Mark Singleton, ITT Water & Wastewater

Description: In the water and wastewater industry it is essential to be able to respond to a variety of dewatering issues during the construction and operation of infrastructure and facilities. Examples of dewatering may include: temporary site dewatering, sewage bypass, excavation dewatering, flood drainage, water or wastewater transfer. This session will provide information on equipment for standard operations and emergency response situations.

Instructor Bio: **Mark Singleton** is employed by ITT Water & Wastewater located in Monroe, Ohio. ITT offers a complete line of submersible pumps, engine-driven suction pumps, generators, piping and complementary accessories. The Dewatering division mandate is to engineer, manage and supply major temporary site dewatering and sewage bypass projects in the municipal, construction, industrial and mining sectors.

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

Topic: Establishing a Corrosion Control Program, Nancy Cagle, Corrosion Control Corporation

Description: Liquid and sludge storage and treatment requires a variety of structures and tanks. Corrosion protection through coatings and linings is essential to maintain the integrity of these units. Corrosion protection includes protection of concrete foundations, in ground piping, electrical work, site improvements, and painting of new or used tanks. This session will provide some of the basic information necessary to establish a corrosion protection program.

Instructor Bio: **Nancy Cagle** is the sales representative for Corrosion Control Corporation. The Company was formed in September of 1968 to provide tank maintenance & construction services for the Northeastern United States. The majority of the company's work has been with corrosion protection through coatings and linings.

Session 11 – Site C 9:30 AM – 10:00 AM 0.5 hrs **DW / WW**

Topic: De-chlorination – Jason McGee, American Development Corporation

Description: Chlorine is one of the primary chemicals used in the water and wastewater industry for disinfection. However, chlorine may be harmful to the environment under some circumstances and de-chlorination is necessary. De-chlorination is the deliberate removal of chlorine from water. De-chlorination minimizes the effect of potentially toxic disinfection byproducts by removing the free or total combined chlorine residual remaining after chlorination. This session will provide information on de-chlorination options and techniques.

Instructor Bio: **Jason McGee** is currently employed by American Development Corporation and provides service and technical assistance. He has an Associate Degree in Occupational Electronics and has ten years of experience as a grade IV operator and Superintendent of Fayetteville Water & Sewer in Fayetteville, Tennessee.

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

Topic: Water Accountability – Bud Reed, Leakage Consultants, Inc.

Description: Water accountability includes controlling water loss in potable water systems and I&I in wastewater collection systems. Water loss is costly due to revenue loss and I&I increases the cost of wastewater treatment. This session will provide information on the equipment and techniques needed to develop a water accountability program. The instructor will discuss the latest technology for solutions to the water loss, sewer I&I and damage prevention issues facing water and wastewater utilities.

Instructor Bio: **Bud Reed** has been involved with developing water loss systems and services for water utilities in Tennessee, Kentucky, and several other states for over twenty years. He has provided services and conducted numerous classroom and field training events to instruct on equipment and techniques to control water leakage in water and wastewater systems.

Session 13 – Site B 10:15 AM – 10:45 AM 0.5 hrs DW / WW

Topic: Tapping Sleeves – Roger Riddle, JCM Industries

Description: Tapping sleeves are necessary to provide a safe and dependable way of connecting branch piping to existing water or wastewater lines. Many tapping sleeves are designed to allow the connection without disturbing current flows or services. This session will provide information on the various types of tapping sleeves used for potable water mains and wastewater force mains.

Instructor Bio: **Roger Riddle** is the territory product specialist for JCM Industries. With 24+ years experience in the industry, he has conducted numerous training events on the use of pipeline repair products. JCM Industries is a leading fitting manufacturer and a supporter of associations serving the water and waster industry.

Session 14 – Site C 10:15 AM – 10:45 AM 0.5 hrs DW / WW

Topic: Pump Efficiencies – Todd Tharpe, Reynolds, Inc.

Description: This session will provide information on pump efficiency guidelines for water and wastewater applications. Pump efficiency is the ratio between the performed pump work and the energy input to the pump driver. As efficiency strongly affects energy consumption, this session will provide a checklist of factors to consider to optimize pump efficiency. .

Instructor Bio: **Todd Tharpe** began his career with the U.S. Geological Survey, Water Resources Division in Atlanta, Georgia. While at the USGS, his work was focused on the application of traditional and experimental geophysical technologies to groundwater investigations. His experience with geophysics has since been utilized on several large-scale tunneling projects, including the Louisville Water Company riverbank filtration tunnel. His experience also includes geotechnical investigations, groundwater contamination studies, groundwater remediation projects and water resources investigations.

Session 15 – Site A 11:00 AM – 11:30 AM 0.5 hrs DW

Topic: Securing Hydrants in a Distribution System – Corey Harper, SHK Enterprises, Inc.

Description: Homeland Security is concerned about the potential threats and vulnerabilities in water systems. Water experts nationwide agree the most vulnerable portion of our domestic water supply is the water distribution system. They further agree that fire hydrants represent the most accessible point in that distribution system. This session will focus on methods and devices to protect hydrants from backflow contamination and tampering.

Instructor Bio: **Corey Harper** is one of the co-owners of SHK Enterprises. Corey has been involved with the water industry since the time of his infancy as he would accompany his father who worked at a water treatment facility. Corey has assisted many water systems with the setup and use of various treatment chemicals. He has presented instruction at numerous training events for the Kentucky Water and Wastewater Operators Association, the Kentucky Rural Water Association, AWWA and other water industry association meetings.

Session 16 – Site B 11:00 AM – 11:30 AM 0.5 hrs DW / WW

Topic: Cutting Metal Pipe – Tom Lewis, Lewis Municipal Sales

Description: Water and wastewater utilities use a variety of types of pipe in their distribution, collection, and treatment systems. Cutting metal pipe for installation or repair projects can be challenging. This session will provide information on a tool for cutting metal water mains and wastewater force mains including Ductile Iron and Cast Iron Pipes. The session will demonstrate how this tool can be an important asset especially during emergency repairs.

Instructor Bio: **Tom Lewis** is the founder and owner of Lewis Municipal Sales. Since its beginning in 1999, Lewis Municipal Sales has served municipalities & contractors engaged in the construction and maintenance of infrastructure for water, sewer and natural gas service in Michigan, Indiana, Kentucky, and West Virginia.

Session 17 – Site C 11:00 AM – 11:30 AM 0.5 hrs **DW**

Topic: Water Quality in Tanks – 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.

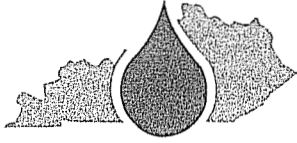
Instructor Bio: **Jay Hoffman** is a certified coatings inspector of the National Association of Corrosion Engineers (NACE) and has been involved in the inspection and maintenance of water storage tanks for 20+ years. Wet or Dry Tank Inspection Services employs its own inspectors and specializes in the under water inspection of water storage tanks.

Session 18 – Site A 11:45 AM – 12:15 PM 0.5 hrs **DW / WW**

Topic: Fusible PVC Pipe Systems – Pete Trautman, Underground Solutions, Inc.

Description: This session will provide information on the procedures, design life, and mechanical properties of fusing PVC pipe. The session will also provide information on the rehabilitation of water and wastewater piping systems. Attendees will learn how these products and procedures can be used to economically install or renew existing piping systems.

Instructor Bio: **Pete Trautman** of Underground Solutions, Inc. is the Mid-South Regional Sales Manager covering the states of Tennessee, Arkansas and Kentucky. Pete is an experienced pipe industry veteran having worked for several specialty pipe manufacturers in his career including George Fischer, Noveon and Contech. A graduate of Purdue University, Pete holds a B.S. in Chemical Engineering.



Kentucky Rural Water Association

Helping water and wastewater utilities help themselves

May 11, 2010

 COPY

Ms. Lisa Butler, Program Coordinator
Operator Certification
Division of Compliance Assistance
300 Fair Oaks Lane
Frankfort, KY 40601-1190

Dear Ms. Butler:

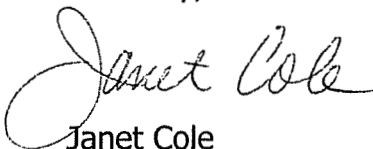
Lisa

Enclosed is a revised "Application for Approval of Courses for Continuing Education Credit." The original application for our Operator Expo being held May 26-27 in Bardstown, Kentucky, was submitted to the Kentucky Board of Certification of Water Treatment and Distribution System Operators and the Kentucky Board of Certification of Wastewater System Operators at their April meetings. As submitted, the Boards approved the application for 9 hours of continuing education credit for water (DCA#8041) and 7.5 hours for wastewater (DCA#8042).

The revisions include the addition of a session on Wednesday, a speaker change for session 4 (topic remains the same), and a change in speaker and topic for session 6. Enclosed is a sheet listing the changes and a copy of a revised agenda with all changes noted in red. With these changes the Operator Expo will offer 9.5 hours for water (maximum credit that can be earned for water will increase to 6 hours) and 8.0 hours for wastewater (maximum credit that can be earned for wastewater will increase to 5 hours).

Thank you for your consideration of these revisions. Should you have any questions, please do not hesitate to contact the Kentucky Rural Water Association office at 270.843.2291.

Sincerely,



Janet Cole
Education Coordinator

Enclosures

<p>Mail to:</p> <p>Division of Compliance Assistance Certification and Licensing Branch Operator Certification Program 300 Fair Oaks Lane Frankfort, KY 40601</p>	<p>Commonwealth of Kentucky Department for Environmental Protection</p> <p>Application for Approval of Courses for Continuing Education Credit</p> <p><i>Drinking Water Treatment, Drinking Water Distribution, Wastewater Treatment and Collection System</i></p> <p>Telephone: 1-800-926-8111 www.dca.ky.gov/certification</p>	<p><i>For Official use Only Do not write in this space</i></p>
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I. Course Sponsor Information:

A. Sponsoring Organization (school, business, association, etc.):
Kentucky Rural Water Association

Key Contact Person: Clem Wethington

Name and Title: Education Director

Address: PO Box 1424

City, State and Zip: Bowling Green, KY 42102-1424

Phone and Fax: Ph: 270.843.2291 Fx: 270-796-8623

E-mail: j.cole@krwa.org

Web Page: www.krwa.org

One-Time Approval Requested Two-Year Approval Requested

B. If individual requesting approval is different than the key contact person for the sponsor, please complete the following information:

Name and Title: _____

Address: _____

City, State and Zip: _____

Phone and Fax: _____

E-mail: _____

II. General Course Information:

A. Title: 2010 Operator Expo

B. Location and Date/s: Nelson Co. Fairground, Bardstown, KY May 26-27, 2010

C. Cost per Student or Group: \$ 45

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

Classroom Web/Online Laboratory Exhibition

Field CD-ROM Video/Audio Correspondence

Other (Explain) _____

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

Drinking Water Treatment and/or Distribution Operators Hours: 9.5 Hours (Revised)

Wastewater Treatment Hours: 8.0 Hours (Revised)

Collection Hours: _____

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 and brief description of topics)
- D. Credentials for All Instructors

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

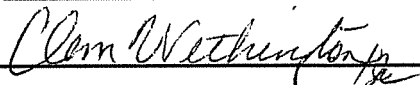
- A. Instructional Design (developed by whom/their credentials)
- B. Curriculum Content (subject matter experts/their credentials)
- C. Required Assignments and/or Examinations (type, passing score, etc.)
- D. Mandatory Time Constraints (deadlines, granting of extensions, etc.)

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 Compliance Assistance (within 30 days of completing the course when possible).

Printed Name and Title: Clem Wethington

Education Director

Signature and Date: 

May 11, 2010

