

# Kentucky Rural Water Association

Helping water and wastewater utilities help themselves

April 11, 2007

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PUBLIC SERVICE  
COMMISSION

Ms. Beth O'Donnell, Executive Director  
Public Service Commission  
P. O. Box 615  
Frankfort, KY 40602-0615

Dear Ms. O'Donnell:

*Case No. 2007-00152*

Kentucky Rural Water Association will host its 2007 Operator Expo at the Nelson County Fair Grounds in Bardstown, Kentucky on May 23-24, 2007. We 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, a description of each session, and speaker biographies. 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 this 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*

Clem Wethington  
Education Director

Enclosures

## Kentucky Rural Water Association Operator Expo – Training Summary

May 23 -24, 2007

Nelson County Fair Grounds, Bardstown, Kentucky

### Learning Objectives:

The objective of these sessions is to introduce and explain processes and procedures that will enhance operation 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. The training will also demonstrate record keeping strategies and how to develop communication channels.

### Criteria for Training Credits:

Attendees will be granted credit for actual time attending or participating in the training sessions. The maximum number of training credit hours each day will be three (3) hours. The maximum number of training credit hours for this two day course will be six (6) hours.

### DAY ONE – May 23

#### Day One - Afternoon Sessions

2:00 P.M. - 5:15 P.M.

2:00 – 3:00

**Session 1:** E.coli Sampling Procedures for Water and Wastewater (PC)  
**Presenter:** Christal Wade, WATERS Lab/Western Kentucky University

This session will provide one (1) hour of training and will focus on the E.coli sampling requirements and procedures for water and wastewater systems. The presentation will include:

1. Proper sample collection and preservation methods
2. Holding times for water and wastewater samples
3. EPA approved methods for water and wastewater E.coli samples
4. Laboratory procedures for E.coli numeration in wastewater and source water

3:00 – 4:00

**Session 2:** GPS/GIS and System Mapping (NPC)  
**Presenter:** Trey Lyon, Spatial Data Integration, Inc.

This session will provide one (1) hour of training and will focus on the use of GPS/GIS equipment to compile, track, and analyze data for water and wastewater systems. The session will also explain how these tools can be used for operation and maintenance as well as future growth planning. The session will include discussion on:

1. Types of GPS equipment – affordability, accuracy, ease of operation
2. Locating lines, valves, manholes, and other water/wastewater system components
3. Using GPS/GIS to identify line-loss, infiltration, and O&M issues
4. Integrating GPS, GIS, and mapping software for utility management

4:15 – 5:15

**Session 3:** Telemetry and SCADA for Water and Wastewater Systems (PC)  
**Presenter:** Alan Morrison, C.I. Thornburg Company

This session will provide one (1) hour of training and will explain how telemetry and SCADA can be used in the treatment processes and operations of water and wastewater systems. The presentation will include:

1. Basic components – transmitters, receivers, sensors, and means of conveyance
2. Integrating with existing equipment and applications
3. Using telemetry and SCADA for treatment, sampling, and operation functions
4. Monitoring, security, and alarm capabilities

**DAY TWO – May 24****Day Two - Morning Sessions****8:00 A.M. – 11:15 A.M.****8:00 – 9:00****Session 1: Bolted Steel Tanks for the Potable and Wastewater Industries (NPC)****Presenter: Bob Torstrick, Columbian TecTank**

This session will provide one (1) hour of training and will focus on how bolted steel storage tanks are used in water and wastewater systems. The presentation will include:

1. Bolted steel tanks – fabrication and coating options
2. Tanks for finished potable water and for wastewater treatment processes
3. Bolted steel structures for basins and clarifiers
4. Inspection and maintenance of bolted steel tanks

**9:00 – 10:00****Session 2: Professionalism in the Water and Wastewater Industry (NPC)****Presenter: Bob Cashion, Southeastern Laboratories, Inc.**

This session will provide one (1) hour of training and will focus on how social and regulatory changes are affecting the water and wastewater industry. The presentation will include:

1. How new regulations have impacted the water and wastewater industry
2. Skilled personnel vs. button pushers and young vs. old
3. Appearance, attitude, and public perception
4. Loving your job – professionalism improves performance

**10:15 – 11:15****Session 3: Water and Wastewater Lab Instrumentation (PC)****Presenter: Brandt Cashion, Hach Company**

This session will provide one (1) hour of training and will focus on instruments used by water and wastewater systems to analyze samples and monitor the effectiveness of treatment processes. The presentation will include:

1. Basic instrumentation for water and wastewater systems and proper procedures
2. Storing and protecting lab instruments and reagents
3. Accuracy and calibration issues
4. New instrumentation to meet new regulatory demands

**Christal Wade**  
**WATERS Laboratory**  
**Center for Water Resource Studies**  
**EST 405**  
**Western Kentucky University**  
**1906 College Heights Blvd #11066**  
**Bowling Green, KY 42101-1066**  
**(270) 282-1170**

**Ms. Christal Wade is currently a Master's Degree candidate in the Biology Department at Western Kentucky University (WKU). She has been employed by the WATERS Laboratory at WKU since November, 2004. Ms. Wade has been involved with the Cryptosporidium and Giardia program at WATERS Lab since she began working there. She is currently a candidate for EPA certification as a Cryptosporidium and Giardia Analyst. She has also recently completed the Kentucky Microbiology Analyst Certification Program.**

# **SPATIAL DATA INTEGRATIONS, INC.**

**Jake B. Lyon, III (Trey)**  
**President**

Spatial Data Integrations, Inc. is a small minority-owned company located in Louisville, Kentucky. Audwin A. Helton, owner and president of Spatial Data Integrations, hired Trey Lyon in June, 2003 to provide customized Geographic Information Systems (GIS) for rural utilities and small municipalities.

Jake B. Lyon, III (Trey) was selected because of his extensive knowledge in the field of GIS applications and a background of working with utilities through the Center for Water Resource Studies at Western Kentucky University. His educational background includes:

- Certificate in Computer Applications, KY Advanced Technology Institute
- Certificate in Automated Systems, KY Advanced Technology Institute
- B.S. Computer Information Systems, Western Kentucky University
- Utility Management Professional, Kentucky Rural Water Assn. and Western Kentucky University

The vision for Spatial Data Integrations, Inc. is to become a leading developer in customized GIS applications and services, while also being recognized for quality and service. An integral part of their vision relies upon developing key relationships with customers and partners to develop products and/or services.

**ALAN S. MORRISON, P.E.**

C. I. THORNBURG CO.

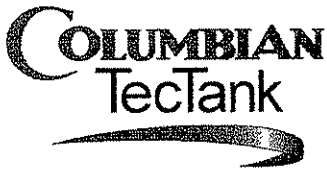
4034 ALTIZER AVENUE

HUNTINGTON, WV 25722

Alan.morrison@cithornburg.com

The C. I. Thornburg Co. was founded in 1931 in Huntington, West Virginia. Over the years the company has expanded into a supplier for water and wastewater needs ranging from a full line of pipe, valves, and fittings; a complete line of engineering products including all types of pumps, control and telemetry systems, and specialty valves; chemicals for water and wastewater treatment; automated meter reading systems; and complete fabrication capabilities through 42" ductile iron pipe. In April 2006 the Engineered Products Division expanded to increase their capabilities for in-house control systems design and construction by opening a control panel shop. They now offer local design, control panel fabrication and integration of control systems covering the entire spectrum of water and wastewater technology.

**Alan S. Morrison** is Vice President of the C. I. Thornburg Company. After earning his degree from Virginia Tech, Alan Morrison joined the company in 1977. In his many years with the company, Mr. Morrison has provided training on various topics for water and wastewater operators, including telemetry and SCADA.



Bob Torstrick  
1202 Margo Trail  
Lawrenceville, GA 30043  
Mobile: 913-669-0608  
Telephone: 678-225-7175 • Fax: 678-225-5075

#### **Bio on Bob Torstrick**

Bob Torstick is a graduate of the University of Louisville. He received a Bachelor's Degree in Chemical Engineering and a Master's Degree in Engineering. From 1983 until 1999 he served as a Water/Wastewater Manufacturers Representative and from 2000 until 2003 was the Vice-President of Sales for Vacom (manufacturer of vapor compression flash evaporators). Since January 2004 Bob has been the Southeast Regional Sales Manager for Columbian TecTank™.

Columbian TecTank™ was formed in 2001 by the merger of Columbian Steel Tank and Peabody TecTank. Both of these businesses had reputations for innovative tank design and state-of-the-art fabrication technologies. Columbian TecTank™, one of leading manufacturers of municipal and industrial liquid storage tanks, manufactures bolted tanks and shop-welded tanks in coated carbon steel, aluminum and stainless steel. Columbian TecTank™ serves markets around the world and has tanks in over 100 countries.

Bob Torstrick  
Columbian TecTank  
1202 Margo Trail  
Lawrenceville, GA 30043  
678-225-7175  
678-225-5075 Fax  
913-669-0608 Cell  
[btorstrick@columbiantectank.com](mailto:btorstrick@columbiantectank.com)

**Bob Cashion, C.W.T.**  
**District Manager**  
**Southeastern Laboratories, Inc.**

16+ years experience  
Class IV Water Certification  
Class IV Wastewater Certification

Graduate: Water & Wastewater Tech. School  
Neosho, MO

Missouri Southern State College  
Environmental Tech.

Western KY University  
Environmental Sciences

Positions

Held: Superintendent  
General Manager  
Public Utilities Director  
Senior Territory Manager

P. O. Box 10189  
Goldsboro, NC 27532-0189

Bus: (919) 751-1001  
Res: (270)782-0023

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Total Water & Waste Treatment-Services & Products



**Brandt Cashion**  
**Hach Company**

After a successful career in the Army, as a First Lieutenant in the paratroopers, Brandt Cashion was employed by Southeastern Laboratories in March 2004 as one of their technical and sales representatives for the Kentucky and Middle Tennessee district.

Brandt Cashion is now a Field Representative for the Hach Company. Some of his responsibilities include providing on-site assistance to water and wastewater systems to address treatment issues and the use of instrumentation for the production and analytical procedures.

**Brandt Cashion**  
800-227-4224 - EXT 2131  
270-535-3877 - cell  
**email:**  
[bcashion@hach.com](mailto:bcashion@hach.com)

**Hach Company**  
P.O. Box 389  
Loveland, CO 80539



# Kentucky Rural Water Association

Helping water and wastewater utilities help themselves

April 9, 2007

Ms. Lisa Butler  
Operator Certification Section  
Division of Compliance Assistance  
14 Reilly Road  
Frankfort, KY 40601

Dear Ms. Butler:

Please present the enclosed "Application for Approval of Courses for Continuing Education Credit" 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 next respective meetings, as outlined below:

TOPIC	DATE(S)	LOCATION	TYPE
2007 Operator EXPO	May 23-24, 2007	Nelson Co. Fair Grounds Bardstown, KY	DW/WW

Resumes for the speakers have been enclosed along with the training summary that includes a brief description and timed agenda for each session. 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

# 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. Fair Grounds, Bardstown, KY May 23-24, 2007

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 &/or Distribution Operator Hours 6

Wastewater Treatment &/or Collection Operator Non-process Control Hours 3

Wastewater Treatment Operators Process Control Hours 3

**(Attach detailed description explaining how this training relates to the wastewater treatment process.)**

## 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 9, 2007

\*\*\*\*\*

**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)

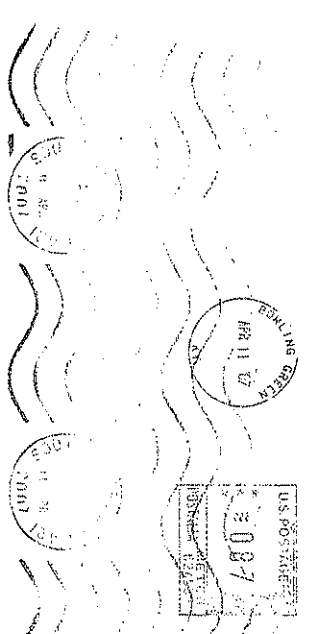
Reason Denied

Reconsidered by:

Drinking Water Board      Date \_\_\_\_\_  
 Wastewater Board      Date \_\_\_\_\_

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

\_\_\_\_\_  
\_\_\_\_\_



**Kentucky Rural Water Association**

3251 Spring Hollow Avenue  
Post Office Box 1424  
Bowling Green, KY  
42102-1424



Telephone 270.843.2291  
Facsimile 270.796.8623

TO: .....

MS. BETH O'DONNELL, EXECUTIVE DIRECTOR  
PUBLIC SERVICE COMMISSION  
P. O. BOX 615  
FRANKFORT, KY 40602-0615

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PUBLIC SERVICE  
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