

Lindell E. Ormsbee

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August 24, 2017

RECEIVED

AUG 2 5 2017

Ms. Talina R. Matthews, Executive Director Public Service Commission P.O. Box 615 Frankfort, KY 40602-0615

PUBLIC SERVICE COMMISSION

Re: Application for approval of Workshop-in-a-Box Training of water district commissioners

Dear Ms. Matthews:

The Kentucky Water Resources Research Institute and collaborators from the National Environmental Services Center at West Virginia University have scheduled a workshop at the KRADD Conference Center in Hazard, Kentucky on September 14, 2017. The "Sustainable Management of Rural and Small Systems Workshop" was developed by the US EPA and the USDA and focuses on ten key management areas for small drinking water and wastewater utilities. The workshop is being offered at no cost to the participants through financial support provided by USDA.

We have enclosed the following materials in support of this application:

- 1) The name and address of the application (included in this transmittal letter).
- 2) The name and sponsor of the program and the subject matter covered by the program (included in this transmittal letter).
- 3) A summary of the content of the program (training summary/timed agenda is attached)
- 4) The number of credit hours requested by the program: 6
- 5) The name and relevant qualifications and credentials of each instructor presenting the program: Dr. Lindell Ormsbee (PhD) and Katherine Garvey (JD), bio-sketches attached.
- 6) A copy of written materials given to water commissioners attending the program (class Powerpoint slides are attached)
- 7) A copy of certification of the program for 6 hours by the KY Division of Compliance Assistance, Certification and Licensing Branch for water and wastewater operators (a copy of the certification is attached)

We respectfully request that the training also be approved for 6 hours of continuing education credits as management training for commissioners of water districts, combined water, gas or sewer districts, or water commissioners as referenced in 807 KAR 5:070. This workshop was previously approved by the PSC for our June workshop at Carter Cayes.

Thank you for your consideration in this matter. If you have any questions, please do not hesitate to contact me.

Sincerely

Lindell E. Ormsbee, P.E., P.H., Ph.D, D.WRE, F.ASCE, F.EWRI

Director of the Kentucky Water Resources Research Institute

Director of the Kentucky Center of Excellence for Watershed Management

Associate Director of the UK NIEHS Superfund Research Program

Raymond-Blythe Professor of Civil Engineering

(859)-257-6329

SUSTAINABLE MANAGEMENT OF RURAL AND SMALL SYSTEMS WORKSHOP AGENDA

September 14, 2017

KRADD Conference Center, Hazard, Kentucky

8:30 am - 4:30 pm

FACILITATOR(S): Lindell Ormsbee, Professor, University of Kentucky, Department of Civil Engineering

SPEAKER: Katherine Garvey, Director, WVU Land Use and Sustainable Development Law Clinic

Session					
Sign-in/Registration (30 minutes)					
Introductions and Workshop Objectives (15 minutes) Lindell Ormsbee, Director KWRRI					
Session 1: Overview of Key Management Areas – Presentation (30 minutes) [Katherine]					
 Presentation of Key Management Areas Group Discussion: Other Important Management Areas for Sustainability 					
Session 2: Utility 'Self Assessment' Exercise (55 minutes) [Lindell]					
 Explain "Sustainable Management Self Assessment" (5 minutes) Participants Conduct Self Assessment (20 minutes) Rate utility achievements and rank management priorities Where is your utility strong? Why? Where is there the most room for improvement? Why? Explain Plotting of Results: achievements vs. priorities (5 minutes) Plot Results (20 minutes) What are your areas of focus (high priority and low performance)? Why are they a priority? Why is performance low? Technical capacity? Financial capacity? Managerial capacity? What are the commonalities and differences among table participants' achievements, 					

10:40	Break (15 minutes)					
10:55	Session 3: Plenary Discussion – Self Assessment Results (1 hour)					
	 Tables Report Out (30 minutes) [Katherine] Chris Wells – Overview of RCAP (20 minutes) Synthesize Results by Plotting Entire Group (10 minutes) [Lindell] 					
11:55	Working Lunch (1 hour) Discussion of Group Plotting					
	(plus Paulette Akers, KYDOCA; Greg Copley, CAER]					
12:55	Session 4: Improving Outcomes (50 minutes)					
	 Tips from previous Improving Outcomes Exercises [Katherine] Each participant completes an improvement worksheet for one low achievement/high priority management area (30 minutes) [Lindell] Discussion Questions: 					
	 What will constitute "high achievement" in this management area? What changes will the utility need to make to improve performance? How could you track your performance progress? What will be the biggest challenges to performance improvement? Participants share improvement worksheet results at their tables (10 minutes) 					
1:45	Session 5: Plenary Discussion – Practices, Tools, and Measures: Results (30 minutes)					
	Tables Report Out [Katherine]					
¥	General Discussion of Findings [Katherine]					
2:15	Break (15 minutes)					
2:30	Session 6: Tools, Guides and Other Resources (40 minutes) [Katherine]					
	 Presentation of Additional Tools, Guides and Other Resources Jocelyn Gross – Overview of KIA 					
3:10	 Session 7: Creating an Action Plan (40 minutes) [Lindell] Discuss Utility Management Improvement Plan Complete a Sustainable Management Action Plan Worksheet 					
3:50	Session 8: Sharing Success Stories (20 minutes) [Katherine]					
4:10	Session 9: Next Steps (10 minutes) [Lindell]					
4:20	Session 10: Feedback Session (10 minutes) [Jeanne]					
	Participants Complete Workshop Evaluation Form					
4:30	Adjourn					

Lindell Ormsbee, P.E., P.H., Ph.D, D.WRE, F.ASCE

Kentucky Water Resources Research Institute (KWRRI), Director

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Director, Kentucky Water Resources Research Institute
Director, Research Translation Core, University of Kentucky Superfund Research Center
Director, Kentucky Center of Excellence for Watershed Management
Associate Director, University of Kentucky Superfund Research Center
Raymond-Blythe Professor of Civil Engineering Raymond-Blythe Professor of Civil
Engineering

Education

Ph.D. Purdue University, 1983 M.S. Virginia Polytechnic Institute and State University, 1979 B.S.C.E. University of Kentucky, 1978

Professional Registration

Professional Engineer, State of Kentucky Professional Hydrologist, American Institute of Hydrology Diplomate, American Academy of Water Resource Engineers

Professional Employment

- 2010 Present: Director, Kentucky Center of Excellence for Watershed Management
- 2009 Present: Associate Director, University of Kentucky Superfund Research Center
- 2005 Present: Director, Research Translation Core, UK Superfund Research Center
- 2004 Present: Director, Kentucky Water 2004 Present Resources Research Institute
- 2003 Present: Raymond Blythe Professor of Civil Engineering
- 2003 2009: Director. Kentucky Research Consortium for Energy and the Environment
- 2000 2006: Director, Eastern Kentucky PRIDE Water Quality Assessment Program
- 2000 2003: Associate Director, Kentucky Water Resources Research Institute
- 2000 2002: Interim Director, Tracy Farmer Center for the Environment
- 1999 Present: Kentucky River Basin Coordinator
- 1998 1999: Acting Director, Kentucky Water Resources Research Institute
- 1997: Visiting Researcher Kentucky Environmental Protection Agency
- 1995 1998: Associate Director, Kentucky Water Resources Research Institute
- 1996 2003: Professor of Civil Engineering, University of Kentucky
- 1989 1996: Associate Professor of Civil Engineering, University of Kentucky
- 1983 1989: Assistant Professor of Civil Engineering, University of Kentucky
- 1979 1981: Project Engineer, Howard K. Bell Consulting Engineers, Lexington, KY

Research Interest and Expertise

Dr. Ormsbee is the Raymond-Blythe Professor of civil engineering at the University of Kentucky. Since joining the faculty of the University of Kentucky in 1983, Dr. Ormsbee has been actively engaged in research, teaching, and consulting in water resources and environmental engineering and has published more that 250 technical papers and reports on various topics in this field. In addition to serving on numerous international, national, and state committees, Dr. Ormsbee has spoken to hundreds of audiences at various technical conferences and other meetings across the United States as well as overseas.

Dr. Ormsbee currently serves as the director of the Kentucky Water Research Institute, the Kentucky Center of Excellence for Watershed Management as well as the associate director of the UK Superfund Research Center. In the past he has served in several other research administrative capacities including, Director of the Kentucky Research Consortium for Energy and Environment (03-09), Director of the Tracy Farmer Center for the Environment (02-03), Director of the UK-PRIDE Water Quality Assessment Program (00-06), the Chair of the Kentucky Environmental Quality Commission (04-06), and the Chair of the Scientific Advisory Board of the Kentucky Watershed Watch Program (04-09). From 1985 to 1998 he served in various capacities in the Kentucky Section of the American Society of Civil Engineering, culminating as president in 1998. In 2003 he served as Chair of the EWRI-ASCE Council on Emerging and Innovative Technologies and in 2004 he was elected Vice-President of the American Institute of Hydrology. In 2008, Dr. Ormsbee served on a BOSC technical review committee for the EPA Homeland Security Program.

Dr. Ormsbee's current research efforts are directed toward the application of systems analysis methods to complex problems in water resources and environmental systems. Over the last 30 years, Dr. Ormsbee has directly managed (as either a PI or Co-PI) over 21 million dollars in external contracts from such agencies as the National Science Foundation, the U.S. Geological Survey, the U.S. Army Corp of Engineers, the U.S. Department of Energy, the National Institutes of Environmental Health Sciences, the U.S. Environmental Protection Agency, and the US Department of Homeland Security. He has also served on several multidisciplinary research teams that have brought in an additional 29 million dollars in external research funding.

Professional Service Activities

1998 - Present: Director, Watershed Management Program, Kentucky River Authority

1998 - Present: Scientific Advisor, Kentucky River Watershed Watch

2003 - 2007: Chair, Kentucky Environmental Quality Commission

2004 - 2006: Chair, Scientific Advisory Board, Inter-basin Coordinating Committee,

Kentucky Watershed Watch

2004 - 2005: Member, Governor's Task Force on Blackwater Issues

2004: Vice President for Academic Affairs, American Institute of Hydrology

2003 - 2004: Chair, EWRI Emerging and Innovative Technologies Council

2002: Chair, Nuclear Subcommittee, Governor's Energy Policy Board

1997-1998: President, Kentucky Section of ASCE

1995: Chair, AWWA International Computer Conference.

1991 - 1992: President, Bluegrass Chapter of Kentucky Section of ASCE

Katherine Garvey, J.D., LL.M.

Contact Information: WVU College of Law, P.O. Box 6130, Morgantown WV 26506-6130; (304) 293-8288; katherine.garvey@mail.wvu.edu

Education / Academic Credentials

Vermont Law School, LL.M. 2010, *cum laude*, Environmental Law University of Missouri-Kansas City School of Law, J.D. 2004 Webster University, B.S. 2000, Business Management La Universidad de los Andes, Bogotá, Colombia, 01/98-12/98, Spanish and Economics

Professional / Academic Experience

- Courses Taught: Land Use and Sustainable Development Law Clinic, Environmental Law, Environmental Advocacy & Writing, Introduction to Environmental Law
- Research Interests: Environmental regulation at the local level, source water protection
- Grants: Legal Education to Address Neglected Properties (2014), Hardy County Source Water Protection (2014)

International Experience

- 17th session of the Conference of the Parties to the United Nations Framework Convention on Climate Change, Representative for Vermont Law School.
- World Summit on Sustainable Development 2002, Johannesburg, South Africa, Representative for the National Association of Environmental Law Schools.
- EnviroLaw Solutions Conference 2002, Durban, South Africa.
- Internship at FUNDEA, Caracas Venezuela, worked on conservation contracts, Summer 2003.
- Proficient in Spanish, lived 2.5 years in Latin America. Passed el Examen de Admisión de Estudios Posgraduados (Spanish version of the GRE) with above average score.

Professional Affiliations - Associations - Service & Outreach

- Board Member, Northern Brownfields Assistance Center
- Member, American Bar Association
- Member of the Bar, West Virginia, Vermont and Missouri
- Liaison, New River Clean Water Alliance

Awards and Honors

 Solid Waste Management Award, American Public Works Association (2006) for development of a solid waste management plan and funding for a hazardous waste management and recycling facility

Selected Publications

- Investing in Green Infrastructure for Source Water Protection, Chapter 1, World Resources Institute (2014).
- Legal Consequences of Adopting New Floodplain Maps in New Hampshire, 43 Envtl. L. Rptr. 10564 (2013).

• Local Protection of Natural Resources after Jam Golf: Standards and Standard of Review, 11 Vt. J. Envtl. L. 145 (2009).

Selected Presentations

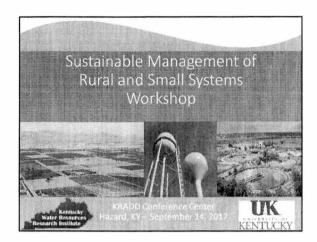
- Game Changers: Land Banks and On-Site Citations, Continuing Legal Education, Charleston WV (May 2015).
- Client-centered Lawyering in a Rural Communities, 14th Annual Transactional Clinical Conference, Kansas City, MO. (April 2015).
- Utilizing Resilient Land Use Planning Concepts to Protect Local Source Water, 2015 Water Resources Conference of the Virginias, Roanoke, WV, October 6, 2015
- Policy, Law & Biofuels, Bioproducts Master Teacher Training Workshop, July 11, 2013
- Fayette County Dilapidated Buildings Strategy Session, April 29th, 2015
- <u>An Introduction to Legal Issues Affecting Neglected Properties</u>, Community Leadership Academy, Morgantown, WV, October 27, 2015
- Morgantown Utility Board's Source Water Protection Plan, Initial Meeting, January 21, 2015
- <u>Navigating the Ordinance and Enforcement Maze</u>, Property Rescue Initiative Information Workshop, Montgomery, WV, October 9, 2015
- The View from 10,000 Feet Up- Voluntary Initiatives and Government Regulations, Spring 2013 Mountain State Land Use Academy, Pipestem WV May 5, 2013
- Mapping and Legal Implications of Future Flooding in the Lamprey River Watershed of New Hampshire Due to Changes in Land Use and Climate, The Coastal Society Conference, Miami FL, Jun 2012).

Courses Taught

Environmental Law, Introduction to Environmental Law, Environmental Communication, Introduction to Business Law, Land Use Clinic, Land Use and Sustainable Development Law Clinic, Torts, Legal Writing I

Grants

- Property Rescue Initiative, Technical Assistance to Address Legal Issues related to Dilapidated Properties December 2015
- Benedum Foundation, West Virginia Legal Education to Address Abandoned and Neglected Properties, July 2014
- Hardy County and the Potomac Valley Conservation District, Hardy County Source Water Protection and Ordinance Review, April 2015.



Welcome and Introductions Moderator: Lindell Ormsbee

- Welcome
- WVU University of Kentucky vision for assisting small communities
- Introduction of Team Members
- Participant Introductions Name, Community, Role
- Workshop Materials
- Meeting Logistics

USDA Workshop-in-a-Box Objectives

- · Learn about key utility management areas
- Complete a self-assessment to understand your respective community systems, needs, wants, requirements, and options
- Discuss tools, tips, and measures for performance improvement
- Exchange information and experiences with participants from other local utilities
- Initiate developing an action plan for your respective communities

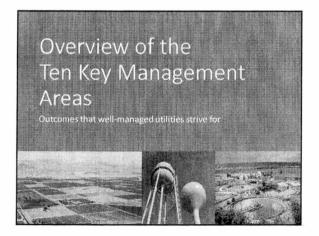
Schedule of Activities

Key Management Areas
Self Assessment Exercise
Lunch, Invited Presentations, Networking
Improving Outcomes
Practices, Tools, and Measures
Creating an Action Plan

Feedback Session

Next Steps

· Identify possible resources for technical support



Common Challenges for Utility Managers

- Aging infrastructure
- Rate issues
 - Prioritize demands for utility expenditures
 - Long-term rate adequacy strategy
- Customer satisfaction and confidence with services and rates

Common Challenges for Utility Managers

- Operational issues
 - · Labor and material costs
 - · Regulatory compliance and new requirements
- · Workforce complexities
 - Attracting and keeping reliable and competent staff
 - Succession planning
- · Knowledgeable and engaged board members

The Well-Managed Utility

- Ten Management Areas framed as outcomes
- Building blocks for utility performance improvement: where to focus and what to strive for
- Most water and wastewater utilities pay attention to these areas and likely perform well in at least some of them
- Fit into, draw on, and support asset management, long-term business planning, continual improvement management systems

The Ten Key Management Areas

- · Product Quality
- · Customer Satisfaction
- Infrastructure Stability
- Community Sustainability & Economic Development
- Stakeholder Understanding and Support
- Employee and Leadership Development
- Operational Optimization – Energy and Water Efficiency
- · Operational Resiliency
- Water Resource Adequacy
- · Financial Viability

Product Quality

- · Clean and safe water
- Produce potable water; treated effluent, and process residuals/recovered resources:
 - Full compliance with regulatory and reliability requirements
 - Consistent with customer, public health, and ecological needs
 - Consistent with local economic development and business needs and opportunities

Customer Satisfaction

- Know what your customers expect in service, water quality, and rates
- · Set goals to meet these expectations
- Help your customers understand the value of water
- Develop a way to gather feedback from your customers, review the feedback, and then act on it

Employee & Leadership Development

- Enable a workforce that is competent, motivated, adaptive, and safe working
- Ensure employee institutional knowledge is retained and improved on over time
- Create opportunities for professional and leadership development

Operational Optimization

- Ensure ongoing, timely, cost-effective, and reliable performance improvements in all facets of operations (i.e., continual improvement culture)
- Minimize resource use, loss, and impacts from dayto-day operations (e.g., energy and chemical use, water loss)
- Maintain awareness of information and operational technology developments to anticipate and support timely adoption of improvements

Financial Viability

- Ensure revenues adequate to recover costs, fund timely maintenance, repair, and replacement of assets, and provide for reserves
- Establish predictable rates, consistent with community expectations and acceptability – discuss rate requirements with customers, board members, and other key stakeholders

Infrastructure Stability

- Understand costs and condition for each system component
- Understand operational performance factors (e.g., pressure)
- Plan for system component repair and replacement over the long-term at the lowest possible cost
- Coordinate asset repair, rehabilitation, and replacement within the community to minimize disruptions and other negative consequences

Operational Resiliency

- Identify threats to the system (legal, financial, noncompliance, environmental, safety, security, and natural disaster) – conduct all hazards vulnerability assessment
- Establish acceptable risk levels that support system reliability goals
- Identify how you will manage risks and plan response actions – prepare all-hazards emergency response plan

Community Sustainability & Economic Development

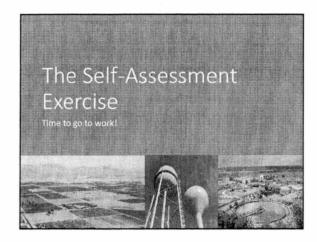
- Be active in your community
 - Be aware of, or participate in, discussions of community and economic development
 - Get to know local business needs and be aware of opportunities for new residential or business customers
- Align Utility Goals: to be attentive to the impacts utility decisions will have on current and future community and watershed health
- Align Utility Goals: to promote community economic vitality and overall improvement

Water Resource Adequacy

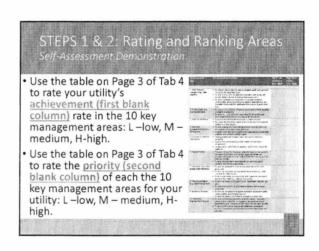
- Ensure water availability consistent with current and future customer needs:
 - · Long-term resource supply and demand analysis
 - Conservation
 - Public education
- · Understand the system role in water availability
- Manage operations to provide for long-term aquifer and surface water sustainability and replenishment

Stakeholder Understanding & Support

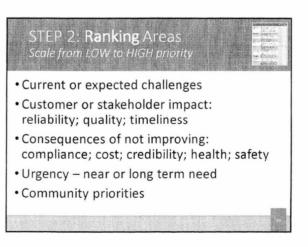
- Create understanding and support from oversight bodies, community and watershed interests, and regulatory bodies:
 - Service levels
 - · Rate structures
 - · Operating budgets
 - · Capital improvement programs
 - · Risk management decisions
- · Actively engage with the community and customers:
 - Understand needs and interests
 - · Promote the value of clean and safe water

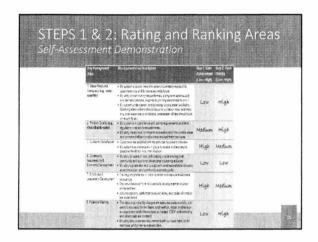


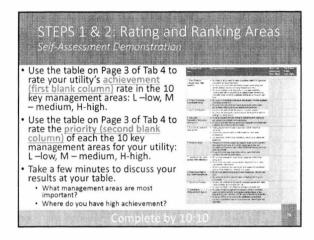
• Step 1: RATE your system's level of achievement (practice and performance) for each management area • Step 2: RANK the importance of each area • Step 3: PLOT the results • Step 4: Improve by exploring Steps 3&4: Tab 4 – Page 5

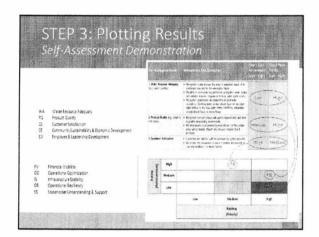


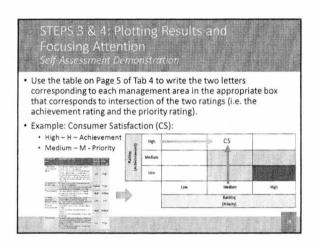
STEP 1: Rating Areas Scale from LOW to HIGH achievement Select Low if your system has no workable practices in place for addressing this area – very low capacity and performance. Select Medium if your system has some workable practices in place with moderate achievement, but could improve – some capacity in place. Select High if your system has effective, standardized, and accepted practices in place. It either usually or consistently achieves goals – capacity is high and in need of very little or no further development.

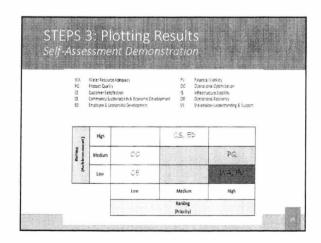


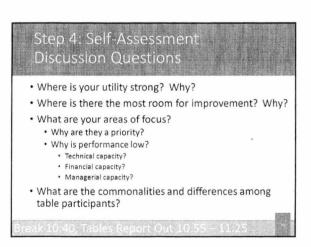


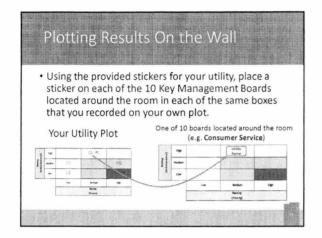


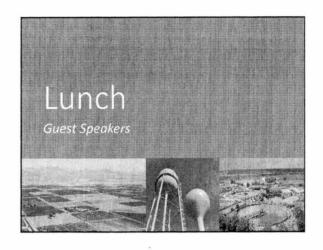


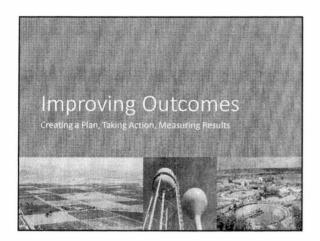












Tips from Previous Improving Outcomes Exercises

- Key management areas selected and discussed at previous workshops:
 - Stakeholder Understanding and Support
 - Infrastructure Stability
 - · Financial Viability
 - Employee and Leadership Development
 - Operational Resiliency

Stakeholder Understanding and Support

- · Examples of High Achievement:
 - <u>Capital improvement plan</u> or other document that summarizes utility priorities and can be shared with utility board
 - Establish standard operating procedures for utility staff that address communication
- · Possible Changes Needed:
 - · Educate stakeholders about utility needs
 - Create ongoing opportunities for stakeholders and utility to interact (e.g., tours of facility)

Infrastructure Stability

- · Examples of High Achievement:
 - Capital improvement plan
 - Inventory of system components, location, installation date, and condition
 - Understanding of system operating parameters (e.g., pressure)
- Possible Changes Needed:
 - Making time to support an incremental approach (e.g., maintenance and repair driven)
 - · Ability to do smaller projects and upgrades annually

Financial Viability

- Examples of High Achievement:
 - · Funds set aside for reserves
 - · Asset management plans, short and long term plans, and quarterly budget reviews
 - · Utility board is knowledgeable about financial issues and system maintenance and repairs
- · Possible Changes Needed:
 - · Good practices in place for rates and shut-offs
 - · Better communication between elected officials, utility staff and consumer
 - · Independent rate study
 - · Document priorities for system improvements

Employee and Leadership Development

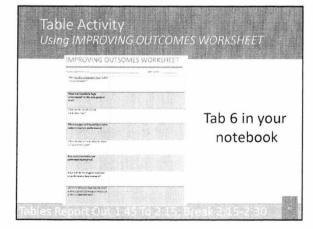
- · Examples of High Achievement:
 - · Written job descriptions
 - · Clear performance expectations
 - · Staff are cross-trained
- · Possible Changes Needed:
 - Develop neighboring system relationships for staff to learn from each other
 - · Create merit-based initiatives to reward high performance (e.g., additional leave days, recognition, monetary awards)

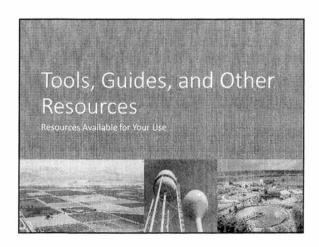
Operational Resiliency

- · Examples of High Achievement:
 - · Emergency response plans, operations plans, shut-off checklists for equipment
 - · Drill emergency response plan
 - · Certify staff and board members
- · Possible Changes Needed:
 - · Ensure staff and board know where all emergency documentation is kept
 - · Have contractor support lined up in case of emergency

Table Activity

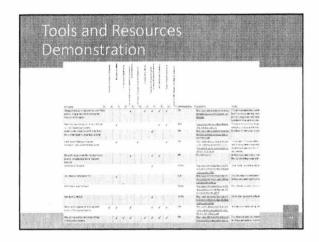
- Using the Improving Outcomes Worksheet provided at your table (also a copy in Tab 6) each table should complete an improvement worksheet for one of the low achievement/high priority management areas identified by one of your table members. The worksheet has eight questions to answer.
- After picking a management area, share perspectives on:
 What will constitute "high achievement" in this management
 - What changes will the utility need to make to improve performance?
 - How could you track your performance progress?
 - What will be the biggest challenges to performance improvement?





Improving Outcomes: Additional Resources

- Extensive Compilation of Tools and Resources
 - Excel Print Out in Your Packet (Tab 8 Appendix III)
 - Electronically Available on EPA and USDA's websites
- Organized by Key Management Areas
- Covers Resources from NRWA, USDA, EPA, RCAP, AWWA, WEF and others
- Supplemental to Locally Available Technical Assistance and Resources
- UK and WVU Resources (Tab 9)



Resource Highlights

- Three (Typically High Priority) Management Areas
 - Operational Optimization Water/Energy Efficiency
 - Financial Viability
 - Stakeholder Understanding and Support
- Areas Typically of High Interest to Utility Managers and The Backbone of A Sustainably Managed System

Operational Optimization Water/Energy Efficiency

EPA: Check Up Program for Small System (CUPSS)

- Free Asset Management Tool for Small Drinking Water and Wastewater Utilities
- Tips on How to Develop a Record of Your Assets, an Understanding of Your Financial Situation, and a Tailored Asset Management Plan



Operational Optimization Water/Energy Efficiency

EPA: Energy Use Tool for Water and Wastewater Systems

- Interactive, Excel-based tool
- Detailed Analysis of All Energy Types
- Provides Summary Report: Statement of Energy Performance

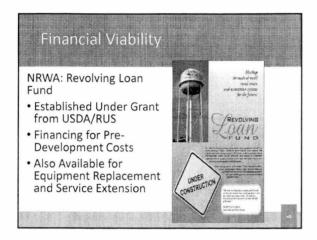


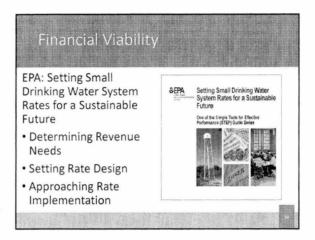
Operational Optimization Water/Energy Efficiency

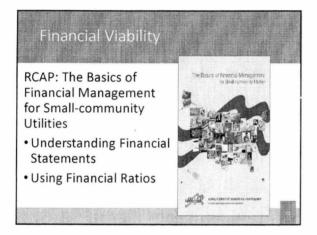
RCAP: Sustainable Infrastructure for Small System Public Services: A Planning and Resource Guide

- Water Conservation
- Energy Efficiency
- · Renewable Energy



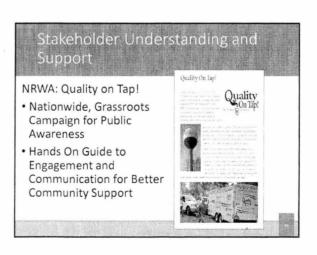


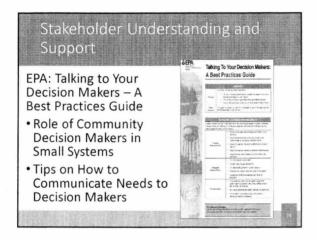


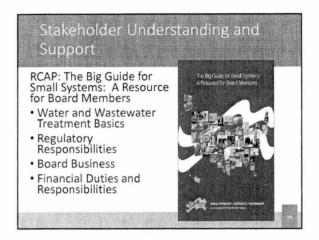


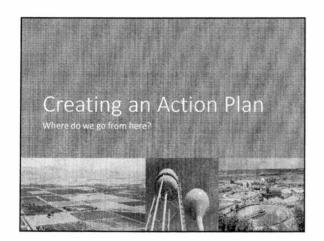


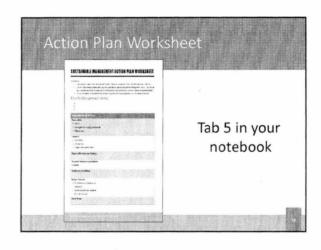


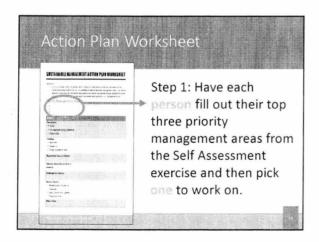








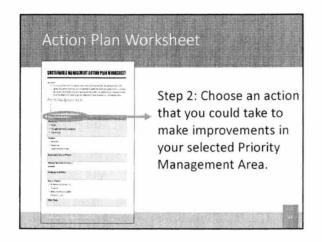


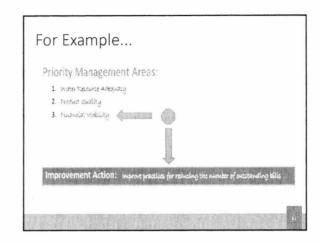


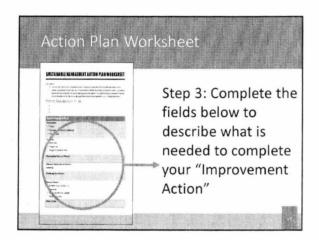
For Example...

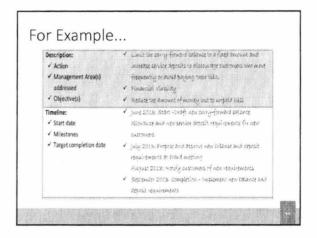
Priority Management Areas:

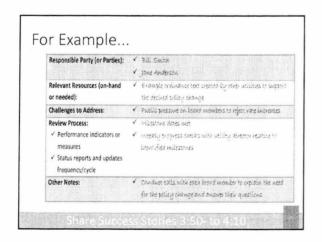
1. Water Resource Adequacy
2. Product Quality
3. Financial Viability Select One

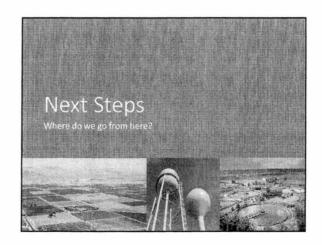


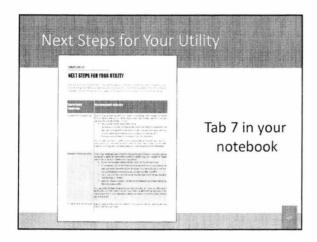


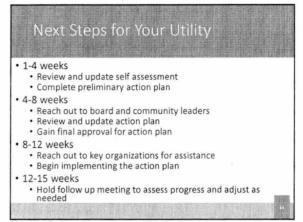






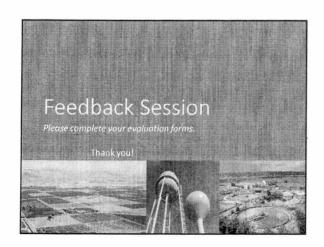


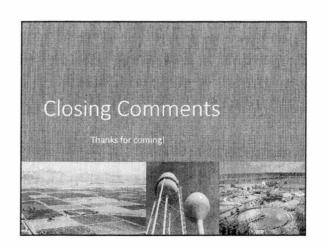




Next Steps for Your Utility Ongoing Hold regular meetings to assess Action Plan activities Periodically, revisit the Self-Assessment activity to identify emerging Priority Management Areas Complete new Action Plan Worksheets as additional Priority Management Areas are identified Share success stories and challenges with technical assistance providers

Key Organizations in Kentucky KY Water Resources Research Institute (KWRRI) KY Division of Water KY Division of Compliance Assistances Kentucky Rural Water Association (KRWA) KY Rural Community Assistance Partnership (RCAP) KY Infrastructure Authority (KIA) KY Public Service Commission (PSC) KY Water and Wastewater Operators Association (KWWOA) KY/TN AWWA/WEF KY Area Development Districts (ADDs) KY Cooperative Extension Service KY Center of Applied Energy Research (CAER)





MATTHEW G. BEVIN
GOVERNOR



CHARLES G. SNAVELY
SECRETARY

ENERGY AND ENVIRONMENT CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION

AARON B. KEATLEY

COMMISSIONER

300 Sower Boulevard Frankfort, Kentucky 40601

June 23, 2017

Kentucky Water Resources Research Institute - UK Attn: Lindell Ormsbee 233 Mining and Mineral Resources Bldg Lexington, Kentucky 40506

Agency Interest Number: 133858

RE: Operator Certification Training Approval for Continuing Education Hours

To Whom It May Concern:

Your training request has been received by the Division of Compliance Assistance, Certification and Licensing Branch. Course approvals are reviewed and approved based on core content outlined by the cabinet and the Kentucky Board of Certification of Wastewater System Operators and the Kentucky Board of Certification of Drinking Water Treatment and Distribution System Operators. The core content lists can be located on our website, <a href="https://doi.org/10.1007/journal.org/10.100

Your request was reviewed by the Kentucky Board of Certification of Wastewater System Operators and/or the Kentucky Board of Certification of Water Treatment and Distribution System Operators at their most recent board business meeting. This letter serves as notification of the board and/or cabinet determination for continuing education credit.

Course Title	Date	Hours & Type Approved	DCA Event ID#	Comments
Sustainable Management of Rural and Small Systems	06/16/2017	WW - 6.0 Hours approved DW - 6.0 Hours approved	16937	One time Approval

Upon completion of the approved training, the provider shall submit to the cabinet a completed Continuing Education Activity Report form. This form can be located on the program's website at dca.ky.gov/certification. The program will no longer accept rosters that are not submitted on the cabinet's Continuing Education Activity Report form or electronically through the cabinet's website. If a continuing education activity report was attached to the training approval request, please be aware that the operators will only receive credit for the number of hours approved by the board(s).

If you have any questions or need additional information, please contact the Division of Compliance Assistance, Certification and Licensing Branch at (502) 564-0323.

Sincerely,

Veronica Roland

Certification and Licensing Branch

Verrica Roland

