



ARKANSAS DRINKING WATER UPDATE

Proposed Regulation Change Public Hearing on October 18

Jeff Stone, P.E., Director

The Engineering Section received permission from the State Board of Health at its July meeting to proceed with revising the *Rules and Regulations Pertaining to Public Water Systems*. This process includes newspaper notice, a separate mail out to public water systems, articles in the Summer and Fall 2013 Arkansas Drinking Water Update, legislative reviews, and a final review by the Board of Health before finalization.

A public hearing is to be held on Friday October 18 in Little Rock to receive comments on proposed changes to the agency’s *Rules and Regulations Pertaining to Public Water Systems*. The hearing will be held at 10 AM in Room 902 of the Freeway Medical Tower, 5800 West 10th Street, Little Rock, AR 72204. Parking is available in front of the building. Notice of this hearing was mailed to public water systems in Arkansas during the week of July 29 – August 2, 2013.

Attendance at the hearing is not necessary in order to comment on the proposed changes. Written comments can be submitted any time before 4:30 PM on October 18 to: Comments – Public Water System Regulations; ADH Engineering Section; 4815 West Markham, Slot 37; Little Rock, AR 72205.

The proposed changes to the regulations include redating of the regulations following the recent (February 2013) publication of the Revised Total Coliform Rule and to add clarity concerning the certification required to document product/component compliance with the new federal “lead free” requirements that become effective on January 4, 2014.

It is proposed that *Section VII.G, Approved Chemicals, Materials, Equipment, and Processes* of the regulations be modified to include in the first paragraph as the second sentence of that section the additional statement

“In addition, all products required to be “lead free” as determined through Section 1417 of the Safe Drinking Water Act (42 U.S.C. 300g) shall be certified as being

in compliance with NSF/ANSI 372 or Annex G of NSF/ANSI 61.”

A marked up copy of the proposed regulations and a summary of the proposed changes can be viewed at:

<http://www.healthy.arkansas.gov/aboutADH/Pages/RulesRegulationsProposed.aspx>

Also, copies of the proposed Rules and Regulations will be available for public inspection and copying at the Engineering Section, 4815 West Markham Street, Little Rock, AR 72205.

The new “lead free” requirements are a modification to the federal Safe Drinking Water Act and become effective January 4, 2014. On that date, public water systems must discontinue use of components that do not meet the new “lead free” requirements. The new “lead free” requirements limit the lead content of wetted surfaces to 0.25%. Product and component certification with respect to NSF/ANSI 372 or Annex G of NSF/ANSI 61 ensures that the products or components are compliant with the new requirements.

Further information on the new federal “lead free” requirements, also referred to as the “Reduction of Lead in Drinking Water Act”, can be found at <http://water.epa.gov/drink/info/lead/index.cfm>

Comments or questions relating to these requirements or relating to the proposed regulation changes can be sent via e-mail to jeffery.stone@arkansas.gov or via phone at 501-661-2623.

The deadline for submitting comments is 4:30 PM on October 18, 2013.

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Fire Hydrants Now Covered by NSF Standard 61

Jeff Stone, P.E., Director

Recent changes, during March 2013, were made to the National Sanitation Foundation (NSF) Standard 61 that included fire hydrants in that standard. Previously, fire hydrants had been excluded from NSF Standard 61.

The Arkansas Department of Health's Rules and Regulations Pertaining to Public Water Systems require that water system components be certified according to NSF Standard 61. Certification of compliance with NSF Standard 61 ensures that water system components are safe to use in drinking water systems.

At this time, various fire hydrant manufacturers are in the process of applying for certification for their products. Several manufacturers now offer NSF 61 certified fire hydrants and others have their applications for certification under review by certification organizations.

When water systems purchase new fire hydrants to replenish their inventory, they must verify that the new fire hydrants that they purchase are certified to NSF 61. It is important to note that certified products that are also certified according to Annex G or NSF Standard 372 are in compliance with the new federal "lead free" requirements that become effective on January 4, 2014. Water systems should request that vendors supply documentation of NSF 61 certification and can also check with the respective certification organization (NSF, UL, or WQA) to verify claimed certifications.

During regular sanitary survey inspections, the ADH will attempt to verify that water systems are purchasing and utilizing components, now including fire hydrants, that are certified according to NSF 61. For questions concerning this requirement or experiences difficulty with regards to obtaining NSF 61 certified fire hydrants, please contact Lance Jones at 501-661-2623 or lance.jones@arkansas.gov for further guidance.

ARKANSAS DRINKING WATER UPDATE is published quarterly by the Engineering Section, Arkansas Department of Health to inform readers of issues and activities affecting this industry. Articles and information in the newsletter can be reproduced without restriction if credit is given for the source. Potential contributors of articles for the **UPDATE** and persons wishing to be added to the mailing list should contact the Section at the address listed on the last page.

OMRPWA Holds Grand Opening Ceremony

Lance Jones, P.E., Chief Engineer



The grand opening ceremony for the Ozark Mountain Regional Public Water Authority (OMRPWA) was held at the water treatment plant site near Lead Hill, AR on August 28, 2013. The project will serve an ample quantity of drinking water to 18 public

water systems to over 20,000 people in Boone, Newton and Searcy Counties. Most of the systems have long experienced water shortages and/or water quality that doesn't meet the National Primary Drinking Water Standards.

The OMRPWA received over \$55 million in Federal ARRA stimulus funding from the USDA Rural Development program and over \$9 million of State funding through the Arkansas Natural Resources Commission (ANRC). Andy Anderson, OMRPWA board president, presented and overview of the project and offered gratitude to all who had helped to make the project a reality. Other speakers included Governor Mike Beebe, Senator David Pryor, Congressman Steve Womack, Staff members for Senator John Boozman and Congressman Rick Crawford, ANRC Director Randy Young, USDA State Director Lawrence McCullough and Federal USDA Rural Utilities Service Administrator John Paladino.

Governor Beebe presented plaque and special thanks to retired Congressman Marion Berry, who was instrumental in securing the support for the federal funding for the project. After the ceremony, project engineers from Engineering Services Inc. led tours of the treatment facility and an overview of the 120 miles of transmission lines, tanks and pump stations that will deliver the treated water to the member water systems.

Six of the participating water systems had been utilizing water sources containing elevated levels of radium, fluoride, or both. With the delivery of water from OMRPWA, these health concerns have been addressed.

Significant Water License Exam Changes

Martin Nutt, Training and Certification Officer

Attention managers and individuals planning to take Drinking Water Operator License Exams, the exams and exam process will change significantly in calendar year 2014. Changes are necessary due to changing requirements of the Associated Boards of Certification (ABC). The changes planned for implementation are:

Effective January 1, 2014, to sit for an exam a person must formally register/schedule the exam 45 days prior to the desired exam session. When registering for an exam, the examinee must have submitted the required license application, paid required fees, and document the ability to meet the mandatory training attendance requirements by the time of examination. Failure to attend the registered exam session may result in the forfeiture of the exam fee. This change will require examinees to plan ahead to sit for exam and bring an end to the program's long history of allowing examinees to just show up and sit unannounced for an exam.

Effective July 1, 2014, scheduling of the actual exam sessions will significantly change. The Section will start scheduling quarterly exam sessions, scheduled at five to six geographically dispersed exam locations, within a two-week time period. See table *Exam Session Scheduling Concepts* for tentative locations and schedule. Exam sessions at the conclusion of all mandatory treatment and distribution courses will end June 30, 2014.

Effective July 1, 2014, the Water Licensing Program will switch from customized Association of Boards of Certification (ABC) exams to the ABC national standardized exams. The exam items, also called questions, will reduce from 120 items to 100 items for all treatment and distribution exams. The very small water system exam will reduce from 70 items to 50 items. The passing percentage will remain at 70 percent. The exam items style and content will not change. However, items specific to Arkansas regulations will be removed. Federal regulations and standards will remain on the exams. Additional information for ABC standardized exams is on ABC's internet site at: http://www.abccert.org/testing_services/info_examinees.asp. Additional exam preparation information will be provided prior to the July 1, 2014 implementation date.

Effective July 1, 2014, the reduction in exam items will also have a reduction in exam time to the ABC prescribed three hours. The majority of examinees complete the present exam within three hours. The reduction in exam time should have minimal impact on prepared examinees.

The above changes are necessary due to ABC policy changes requiring greater exam security and reduced support of customized exams. The new security measures end our ability to maintain a supply of exams. We must convert to ordering exam on an "as needed" basis. The changes also address Section concerns over staff time and travel expenses dedicated to proctoring the large number of exam sessions presently offered. Present exam sessions routinely have five or fewer examinees sitting for an exam.

Exam Session Scheduling Concepts				
(Effective July 2014)				
Location	September	December	March	June
Lonoke	1 st Friday	1 st Friday	1 st Friday	1 st Friday
Fayetteville/West Fork	1 st Friday	1 st Friday	1 st Friday	1 st Friday
Mountain Home	1 st Friday		1 st Friday	
Nashville/Arkadelphia		1 st Friday		1 st Friday
Camden	2 nd Friday	2 nd Friday	2 nd Friday	2 nd Friday
Jonesboro/Bono	2 nd Friday	2 nd Friday	2 nd Friday	2 nd Friday
Clarksville	2 nd Friday	2 nd Friday	2 nd Friday	2 nd Friday
Hot Springs (Annual Conferences of AWWWEA & ARWA, if requested.)				

Expired Water Licenses

Martin Nutt, Training and Certification Officer

The following persons have no documented attempt to renew their water license as of September 10, 2013. If you are on this list and wish to renew your license, please submit your renewal documents mailed to you previously. If you have questions, please contact the Water Licensing Program.

LICENSEE NAME	ADDRESS CITY
ACORD GLENN	CLARKSVILLE
ADAMS KEITH	HARRISON
ADAMS POLLY	BEEDEVILLE
AKIN RAY	MORRILTON
ALLEN WAYNE	ROGERS
ALLRED ANTHONY	PINE BLUFF
ANDREWS RONNIE	GREENBRIER
APPLE TATE	LEACHVILLE
ARREDONDO MICHAEL	SILVER CITY
ASHER GREGORY	BRYANT
ASKINS JOHN	NLR
BAER KENNETH	LITTLE ROCK
BALDWIN JOHNNY	BERRYVILLE
BALDWIN LOMAN	WYNNE
BARNETT JOHN	EMERSON
BARTON MICHAEL	NASHVILLE
BASS ANDREW	WEST MEMPHIS
BASS JEFFERY	BEEBE
BAYLES WILLIAM	BAUXITE
BEAZLEY RALPH	FORREST CITY
BENTON STAN	LITTLE ROCK
BERRY DAVID	BENTON
BLAND JUSTIN	SILOAM SPRINGS
BOYD DOUGLAS	FORT SMITH
BOYETTE DAVID	RUSSELLVILLE
BREWER MARVIN	MENA
BRIDGES MARY	GREENWOOD
BROWN DOUGLAS	BULL SHOALS
BROWN JASON	BENTONVILLE
BURCH KALYN	BRYANT
BURGESS STEVEN	ROGERS
BURRIS SCOTT	BEE BRANCH
BURSON DAVID	NLR
BUTTON ROBERT	BENTONVILLE
BYRD LARRY	TYRONZA
CALDWELL JAKE	JUNCTION CITY
CAMP JAMES	GREERS FERRY
CANNON MATTHEW	MENA
CARMAN ROY	HASKELL
CARR TERRY	GENTRY
CAUDLE LARRY	LINCOLN
CHANDLER SAMMY	BULL SHOALS
CHILDRESS RACHEL	CROSSETT
CHRISTENSEN RICHARD	KANSAS CITY
CLARK LAVERNE	LAKEVIEW
CLARK SCOTT	MAGNOLIA
CLARK SHELBY	JONESBORO
CLINGAN WILLIAM	ENGLAND
COCHRAN DON	WINTER GARDEN
COFFELT ROBERT	BENTONVILLE
CONATSER TIMOTHY	DEQUEEN
CORDELL ZACHARY	HETH
COWAN JAMES	EUREKA SPRINGS
COX SHERMAN	CLARENDON
COX TERRY	SILOAM SPRINGS
CREEGER GERALD	GASSVILLE
CRIDER HAROLD	PANGBURN
CRISENBERRY DAVID	FLIPPIN
CROFT FREDRICK	WHITE HALL
CRUTCHFIELD DAVID	SPRINGDALE
DAGESTAD SEAN	JANE

LICENSEE NAME	ADDRESS CITY
DAVIS CHARLES	GREENWAY
DAVIS ROBERT	BENTON
DECKARD DOUG	QUITMAN
DEMENT JOHNNY	PRAIRIE GROVE
DICKEY DAVID	CAMDEN
DILDINE TOM	RAVENDEN SPRING
DISHEROON KELLY	GREEN FOREST
DOUCEY RICKEY	WHITE HALL
DUFRESNE DANIEL	BONNERDALE
DUTY JOE	ROGERS
EARLEY ARTHUR	MC CRORY
EFURD SHANE	HACKETT
ELROD STEVEN	HOT SPRINGS
ESKEW DENNIS	HOT.SP.VILLAGE
EVANS NICHALOUS	LYNN
FARMER STEPHEN	LOWELL
FAULKNER MICHAEL	MONTICELLO
FIELDS DANNY	SPRINGDALE
FILDES JAMES	MANSFIELD
FINDLEY DAVID	DARDANELLE
FOLEY FARRON	MOUNT IDA
FOSTER JOSEPH	PORTLAND
FRADY BRIAN	BEEBE
FRAIZE ERIC	ALMA
FRASER JAMES	FLORAL
FREEMAN KENNETH	ALTUS
FREEMAN ROBERT	LITTLE ROCK
GARLAND LONNIE	ARKADELPHIA
GARNER CINDY	HUTCHINSON
GARNER RAYMOND	HASKELL
GARZA THOMAS	SAINT PAUL
GATEWOOD MARK	JONESBORO
GEASLIN TERRY	NEWPORT
GIBBONS HARDY	WILTON
GILBRETH CHRISTINA	DAVENPORT
GILES MISTY	PYATT
GILMORE HAROLD	ALMA
GLASCOCK FRED	WILBURN
GOAD DALLAS	BRADFORD
GOADE SAM	SPRINGDALE
GOFF PHILLIP	BELLA VISTA
GOODMAN KEVIN	HARRISON
GRABER ALDEN	BENTON
GREEN BRAD	RECTOR
GREEN CHARLES	HOT SPRINGS
GREEN MICKEY	NEWPORT
GROSS ARLIS	OMAHA
GUILLORY GARY	FAYETTEVILLE
HAARMAYER CHARLES	DE QUEEN
HALLIDAY ROY	SILOAM SPRINGS
HALMES JOSEPH	OZARK
HARBERSON JOHN	NASHVILLE
HARDIN BURL	HOT SPRINGS
HARRIS JOSEPH	FELSENTHAL
HARTLEY ERNEST	JAY
HAWK WILLIAM	CABOT
HENSON KENNETHA	MALVERN
HERRING LESTER	WALNUT RIDGE
HERRINGTON CHARLES	MOUNTAIN VIEW
HESTER PAUL	HARTFORD
HIBBARD BRIAN	POCAHONTAS

LICENSEE NAME	ADDRESS CITY
HICKAM SUE	WILMAR
HILL DAVID	EL DORADO
HINES BLAKE	BAUXITE
HOLLAND TONY	PERRYVILLE
HOOD BOBBY	LAKE VILLAGE
HOOD JASON	CONWAY
HORTON GIL	WEST MEMPHIS
HOUSE AMANDA	BELLA VISTA
HUGHES MICHAEL	CONWAY
IMPSON MEGAN	CLARKSVILLE
IRVING ROBERT	LITTLE ROCK
IRWIN HEATH	CONWAY
JANSEN JOSEPH	POCAHONTAS
JEFFERS RANDALL	HOT SPRINGS
JENKINS THOMAS	GLENWOOD
JOBE JAMES	MT PLEASANT
JOHNSON ERIC	CAVE CITY
JOHNSON JAMES	BERRYVILLE
JONES GARY	BROOKLAND
JONES PAUL	EL DORADO
JUNIOR JEFFREY	BALD KNOB
JUSTUS CHRIS	BATESVILLE
KELLY JOHN	NASHVILLE
KNIGHT DONALD	HEBER SPRINGS
KUNATH JACK	LAKEVIEW
LACEFIELD KENNETH	DE QUEEN
LANCE JACOB	BENTONVILLE
LAVIGNE SAMUEL	TEXARKANA
LEATHERS JOHN	BEN LOMOND
LEE BOBBY	ALICIA
LETTERMAN KIMBERLY	HARTFORD
LEVIK DARYN	GARFIELD
LEWIS TERRY	EL DORADO
LOCKRIDGE BILLY	HARRISON
LOGAN KENNETH	BULL SHOALS
LONGINO WILLIAM	MAGNOLIA
LOVELL WAYNE	PERRYVILLE
LOWREY MICHAEL	BALD KNOB
MAHAN TOMMY	CENTER RIDGE
MAHONEY ROGER	BAUXITE
MALLARD THURMAN	SILOAM SPRINGS
MANER CARL	LITTLE ROCK
MARR CHRISTOPHER	SHERWOOD
MARTIN DONALD	HOWE
MARTIN TIMOTHY	DUMAS
MASON DAVID	ALMA
MAUPIN KEITH	GREEN FOREST
MAY SAM	SPARKMAN
MAYS GIBBS	MCGEHEE
MCALISTER TOM	ROGERS
MCCONNELL TOMMY	CARTHAGE
MCDOLE DAVID	MT HOME
MCELROY RYAN	ROSSTON
MCGINTY BLAKE	WACO
MCMILLIN RANDY	RECTOR
MCRAE JODY	DEQUEEN
MCWHORTER DONALD	STAR CITY
MCWILLIAM PATRICK	OZARK
MEADOWS JOSHUA	BENTON
MENDYK JAMES	GREEN FOREST
MESSICK JAMES	ALEXANDER

LICENSEE NAME	ADDRESS CITY
METCALF PAUL	N. RICHLAND
MILES TIMOTHY	SULPHUR ROCK
MILLER PERRY	MULDROW
MITCHELL MAX	BENTONVILLE
MIZE CRAIG	CABOT
MONK SAMMY	CAMDEN
MOORE GREGORY	MALVERN
MORCAN DORINA	HOT SPRINGS
NAPPER DOYLE	MALVERN
NASH CHARLES	LOCKESBURG
NEAL DANIEL	OKOLONA
NEWTON SAMUEL	GRADY
NORTON BOBBY	BRINKLEY
O'BAR JIM	PARIS
OGLESBY TONY	GILLHAM
OLIVER BILL	BELLA VISTA
OMARI NAEEM	GILMORE
OSTMEYER MITCHELL	DE SOTO
OTTS BILLY	MALVERN
PARKER SETH	QUITMAN
PARKER WHITNEY	LOWELL
PARTEE DONALD	KIRBY
PATE THOMAS	CAMDEN
PENNINGTON BRANDY	MONTICELLO
PHILLIPS CODY	FAYETTEVILLE
PHIPPS ANDREW	BENTONVILLE
PIERCE TONY	HUNTER
POE JOSEPH	SCOTT
POSADA CHE	MOUNTAIN VIEW
POULSON ROBERT	RUSSELLVILLE
PRUITT ROD	CONWAY
QUAST KENNY	HOT SPRINGS
RAABE MILTON	HOT SPRINGS
REINHARDT W	HOT SPRINGS
RIVERS TERRY	KINGSLAND
ROARK ADAM	BENTONVILLE
ROBERTS DARRELL	FRANKLIN
ROBERTSON BETH	ROHWER
ROBINSON DARRELL	BENTONVILLE
ROBINSON TRACY	CORNING

LICENSEE NAME	ADDRESS CITY
ROGERS FREDDIE	DEVALLS BLUFF
ROLAND H	LITTLE ROCK
ROLLON GREGORY	TULL
ROREX RODNEY	JONESBORO
ROSS GREGORY	ALTUS
ROSS WILLIAM	HERMITAGE
RUFFINS GARY	CAMDEN
RUSSELL ROBERT	CALICO ROCK
RYE DANNY	LITTLE ROCK
RYMER ERNEST	TEXARKANA
SALLEE MATTHEW	FAYETTEVILLE
SANCHEZ JAMES	JACKSONVILLE
SANDY KEVIN	FORT SMITH
SCHAPER GRANT	GREENWOOD
SCOTT KATHRYN	WINTHROP
SEHORN NICKY	WALDRON
SETTLEMOIR KARLA	ASHDOWN
SHEPARD JOSHUA	BRYANT
SHEPPARD MICKEY	HOT SPRINGS
SHIPLEY SHANE	RECTOR
SHORT KYLE	JEFFERSON
SHORT TEDDY	HOT SPRINGS
SILVA ANTHONY	BERRYVILLE
SKINNER JESSE	DIERKS
SMITH DAVID	SHOW LOW
SMITH THOMAS	HOPE
SMITH WILLIAM	BOONEVILLE
SOMMERS BEN	CROSSVILLE
STANFORD CHARLES	CALICO ROCK
STEPHENS JIMMY	BELLA VISTA
STILWELL DANNY	DYER
STRAIGHT JAMES	ROGERS
STUART VAUGHN	WEINER
STUTTS JAMES	WYNNE
SUITOR DORINDA	ARKADELPHIA
TAYLOR CHARLES	WEST HELENA
TAYLOR STEVEN	ROGERS
TAYLOR STEVEN	RUSSELLVILLE
TEAGUE RONDA	ALMA
TEMPLE JERRY	ALEXANDER

LICENSEE NAME	ADDRESS CITY
TERRY LOUIS	OGDEN
TILDEN MICHAEL	OZARK
TIPPS CLINTON	LAKE VILLAGE
TOPF WILLIAM	YELLVILLE
TOWNSEND SUE	FOUKE
TROTTER BRIAN	GREENWOOD
URBAN RONALD	WALDRON
VANDEN HEUVEL TYLER	BENTONVILLE
VANNORTON EDWARD	LITTLE ROCK
VAUGHN MATTHEW	RECTOR
VAUGHT CLAYTON	COAL HILL
VITZTHUM MICHAEL	DELIGHT
VONDRAN JOHN	CONWAY
WADDLE JASON	WHITE HALL
WALKER PRESTON	CHARLESTON
WALKER RAYMOND	WALNUT RIDGE
WASHBURN NOEL	ROGERS
WELLS BRADLEY	BOONEVILLE
WELLS NATHAN	MALVERN
WEST ROBERT	SHELL KNOB
WHITE STEPHEN	MAMMOTH SPRING
WHITNER CLEM	HARRISON
WHITWORTH MELVIN	KNOBEL
WHORTON JIMMY	SPRINGDALE
WILKES JAMES	BATESVILLE
WILKINS CLARENCE	WYNNE
WILLIAMS QUINTON	BLYTHEVILLE
WILLIAMS STEVE	AUGUSTA
WILLIAMSON GARY	MONTROSE
WOOLEMS JAMES	PINE BLUFF
WYMAN HERBERT	PRESCOTT
YOUNG CURTIS	ROGERS
YOUNG MICHAEL	GENTRY

Expired Licenses Lacking Training Hours

Martin Nutt, Training and Certification Officer

The following individuals submitted a license renewal but the renewal lacked continuing education hours or some type of necessary documentation. If you are on this list, developed September 10, 2013, contact the Engineering Section if you have questions.

LICENSEE NAME	ADDRESS CITY
ASHCRAFT TERESA	PINE BLUFF
BAKER HAROLD T	EL DORADO
BOUDREY RANDALL	WEST MEMPHIS
BUSTER LEWIS	LITTLE ROCK
DONDY RUSSELL	MOUNT IDA
DUNCAN GARY	BAUXITE
EATON JOSEPH	EL DORADO
EDWARDS ROMELL	EL DORADO
FRANCIS MARY	EL DORADO
FREEMAN LINDA	PELSOR
GRAVES MICHAEL	NORMAN
GREENE STEVEN	EL DORADO

LICENSEE NAME	ADDRESS CITY
HAYNIE JAMES	EL DORADO
HENRY BILLY	ENGLAND
HOEK BILL	VANDERVOORT
JACKSON RANDY	ASHDOWN
JONES RICK	MARIANNA
LAGIOS THOMAS	EL DORADO
LORIOLE LENNIS	ADAMSVILLE
MATHEWS DEWAYNE	EL DORADO
MCFALL JONATHON	SCOTT
MERRELL JOHN	CHERRY VALLEY
MOORE JOSHUA	FARMINGTON
MOORE RANDY	ROGERS

LICENSEE NAME	ADDRESS CITY
MORGAN LARRY	EL DORADO
MOSLEY MATTHEW	DIAMOND CITY
MURPHY CHARLES	MULBERRY
ORT JIMMY	ALEXANDER
PERKINS VICTOR	HOT SPRINGS VIL
PRINCE SHERMAN	DONALDSON
SMITH ALICE	EL DORADO
THATCHER JOE	MOUNTAIN VIEW
VU DZUNG	FORT SMITH
WARHURST OTTO	WILSON
WILKEY VERNON	VAN BUREN

Fluoridation Safety Inspections

Lance Jones, P.E., Chief Engineer

The Engineering Section routinely conducts sanitary survey inspections of public water systems to evaluate their overall condition and operation and identify areas that may need attention to ensure the reliability of the system to continue to deliver ample safe drinking water to its customers. Over the past year, we have also been conducting additional sanitary survey inspections for fluoride feed systems that add fluoride for oral health benefits. Approximately 80% of the fluoride feed systems have been completed and the others will be completed in the next few months.

These inspections concentrate on the fluoride chemicals, the feed, testing and safety equipment and operational procedures used at the water system to ensure that a safe and sanitary system is in place to feed the optimum level of fluoride (0.7 mg/l) to the water delivered to consumers. The majority of the surveys have indicated that water systems as a whole have effective and well operated fluoride feed systems.

It is important that there are safeguards in place to ensure that overfeed of fluoride chemical does not occur. Since fluoride is odorless, colorless and tasteless in the treated water, an overfeed cannot be detected other than using proper test procedures. The first line of protection is to utilize appropriately sized feeder, day tanks and anti-siphon devices to prevent excess chemical from being fed even if there is a malfunction in the feed control system. Fluoride feeders should be sized to limit the chemical feed dose even if the feeder operates at 100% capacity. Day tanks and anti-siphon devices are to limit the amount of chemical available to be fed in the event of a failure of the feeder to stop when the water flow through the plant stops.

These items are the most common feed issues noted during the survey inspections. In some cases, the original feed equipment had been replaced with a more common feeder for either convenience or lesser cost. Most of the time, these feeders have a much higher capacity than the original feeder creating a potential for overfeed. The use of day tanks and anti-siphon devices is often overlooked or avoided because they require additional operation and maintenance efforts. The lack of these can lead to an overfeed by allowing

chemical from the bulk storage to continue to feed when the water flow is stopped and creating very high fluoride concentrations in the treated water.

Many systems also lack the safety equipment needed to provide adequate protection to the water system personnel. Gloves, aprons, goggles/face shield, dust masks (dry chemical handling) should be used when handling fluoride chemicals. Also working safety showers and eye-wash stations should be installed in close proximity to rinse chemical spills off of the worker.

Please review the items noted in the fluoride survey inspection report for your water system and address any items noted. Fluoride feed systems will continue to be reviewed in future overall system sanitary surveys. If you have questions regarding the fluoride feed at your system or are interested in adding fluoride to your system, please contact your district staff at 501-661-2623 or see our Fluoride policy on the Engineering Section website www.healthy.arkansas.gov/eng

Pumps and Pump Maintenance Class

Texas A & M Engineering Extension Service will hold a hands-on three day training session on Pumps and Pump Maintenance on Tuesday through Thursday, November 19-21, at the Maumelle Wastewater Training Facility at 418 Hyman Drive, Maumelle. Each session begins at 8:30 a.m. There is no cost for the training.

Subject matter experts will provide instruction on pump installation, types and uses of pumps, motors and lubricants, and related safety practices. Participants will have the opportunity for hands-on exercises using the pump and motor training trailer. Additionally, participants will learn about planning, scheduling, and budgeting maintenance for pump and motor equipment.

This hands-on training includes the following topics:

- Bearings
- Hand tools
- Lubricants and lubrication
- Maintenance budgeting and cost control
- Motors
- Packing and mechanical seals and gaskets
- Planning and scheduling maintenance work
- Power transmission
- Pumps

For more information, please contact Greg Alexander at (501) 280-4023.

20 hours of training credit toward water certification will be awarded upon completion.

Geology and Groundwater of the Ozark Plateaus

Evelyn Kort, Geologist

The Ozark Plateaus physiographic province covers the northwest and north central part of Arkansas. This is an area of rugged hills and steep valleys deeply dissected by streams. The Ozark Plateaus physiographic province is divided into three broad plateaus based on elevations and the age of the rocks present at the surface. From north



to south, the three plateaus are the Salem Plateau, the Springfield Plateau, and the Boston Mountains. A map of the physiographic regions of Arkansas is presented below.

The Salem Plateau is the lowest in elevation and has the oldest rocks consisting of Ordovician dolomites, sandstones and limestones. The Ordovician was a period in geologic time that occurred about 500-440 million years ago. Limestone is a sedimentary rock composed of calcium carbonate commonly from the skeletal fragments of marine organisms such as coral. Dolomite is similar to limestone but is a calcium magnesium carbonate. Limestones and dolomites are also referred to as carbonate rocks. Some of the formations present at the ground surface in the Salem Plateau are the Cotter and Jefferson City Dolomite, the Powell Dolomite, the St. Peter Sandstone and the Everton Formation.

The Springfield Plateau is generally higher in elevation with younger rocks at the surface, primarily limestones of the Mississippian Boone Formation. The Mississippian was a period in geologic time that occurred about 360-320 million years ago. Caves and sinkholes are common in the Boone Formation. These features are also

known as karst topography and are formed because limestone is partially soluble, particularly in acidic water. Most rain water is slightly acidic. An important Mississippian age formation is the Fayetteville Shale. It is present at the surface in parts of the Ozark Plateaus and extends into the subsurface moving south across the Ozark Plateaus and the adjacent Arkansas River Valley.

The Boston Mountains plateau is the highest in elevation and has the youngest rocks at the surface, consisting of Pennsylvanian sandstones and shales. The Pennsylvanian was a period in geologic time that occurred about 320-290 million years ago. Sandstone is a clastic sedimentary rock composed of clasts or fragments of pre-existing rocks. These clasts have been weathered and eroded by water or wind and transported and deposited somewhere else. Shale is also a clastic sedimentary rock, but is finer-grained than sandstone and is formed from mud compacted into a hard rock. Some of the formations present at the surface in the Boston Mountains are the Hale Formation and the Atoka Formation.

The depositional environment of the Ozarks in Arkansas was a shallow continental shelf sloping toward deeper water to the south. The sediments were deposited by the shallow marine seas. The area is characterized by relatively flat-lying formations and widely spaced faults. Faults typically have 100 feet or less of vertical displacement with downward movement on the southern side.

Much of the public water supply in the Ozark Plateaus is from surface water sources. Large reservoirs are located in this area and include Beaver Lake, Bull Shoals Lake, Norfolk Lake, and Greers Ferry Lake. The approximate population served by surface water from the Ozark Plateaus is 730,000. To a lesser degree groundwater is also used for public water supply. The Ozark Aquifer is the primary source of groundwater for this area. Approximately 327,000 people are served by groundwater from the Ozark Plateaus. Some of the formations that make up the Ozark Aquifer are presented below.

The stratigraphic column is a profile of the layers of rocks or formations present in the subsurface. The youngest and shallowest formation is at the top of the chart and progressively older and deeper formations are presented beneath the younger formations above. The solubility of carbonate rocks in water leads to karst landscapes. Areas of carbonate bedrock may have fewer ponds and streams because surface water easily drains downward through cracks in the rock. While

STRATIGRAPHIC COLUMN OF THE OZARK AQUIFER IN ARKANSAS		
AGE million years	PERIOD	FORMATION
480-460 million years ago	Middle Ordovician	St. Peter Sandstone
		Everton Formation
500-480 million years ago	Early Ordovician	Powell Dolomite
		Cotter and Jefferson City Dolomite
		Roubidoux Formation
		Gasconade Formation including the Gunter Sandstone member

draining, water and organic acid from the soil enlarge the cracks, dissolving the calcium carbonate. Common karst features are sinkholes, caves, and caverns. A sinkhole occurs when the carbonate bedrock dissolves to the point that it can no longer support the weight of the overlying rock and soil. The overburden collapses creating a sinkhole. Rivers in karst areas may disappear underground and spring up again somewhere else and are called disappearing streams. Water containing dissolved calcium carbonate can redeposit the rock, sometimes in the form of stalactites and stalagmites, common cave features.

The Ozark Aquifer is characterized by secondary porosity developed as a result of fracturing and dissolution of the soluble carbonate rocks. Some of the conduits can be quite large and groundwater freely flows through them at high velocities. For this reason, carbonate aquifers are vulnerable to contamination and surface water influences, especially where the overlying soil is thin. The normal filtering that occurs in a porous aquifer and thick soil is bypassed. A groundwater well which is influenced by surface water is deemed to be GWUDI-Ground Water Under Direct Influence (of surface water).

The USEPA defines GWUDI as “any water beneath the surface of the ground with significant occurrence of insects or other macroorganisms, algae, or large diameter pathogens, or significant and relatively rapid shifts in water characteristics such as turbidity, temperature, conductivity, or pH which closely correlate to climatological or surface water conditions”. All ground-water sources must be evaluated to determine if they are GWUDI. This

is accomplished by conducting a water quality assessment which may involve a Microscopic Particulate Analysis (MPA). The MPA is completed by a certified laboratory and is used to determine if pathogens or other indicator organisms are present. If a ground-water source is determined to be GWUDI four options are available: (1) fix the structural defects that allow surface water influence, (2) drill another well and properly seal and abandon the GWUDI well, (3) connect to another public water system, or (4) install treatment. If treatment is the selected option, GWUDI wells are treated as a surface water source which requires that the treatment include disinfection and filtration.

The groundwater quality of the Ozark Aquifer is generally good; no adverse water quality problems should be expected with proper well construction. Preferred well construction typically involves as much surface casing as possible with grout in the annular space between the casing and the borehole for the entire length of the casing. Preferred aquifers for public water supplies are the Roubidoux Formation and the Gunter Sandstone due to their depth and because they usually have sufficient yields and good water quality. Naturally occurring contamination is rare, but radium, fluoride and hydrogen sulfide have impacted some public water supply wells in the Ozark Plateaus. In some cases this contamination has resulted in systems abandoning their wells.

Have You Renewed Your Water Licenses?

Renewal notices have been mailed and all renewals received have been processed. Operators who submitted renewals 15 or more days ago without a response should contact the Water Licensing Program to determine your renewal status, by calling (501) 661-2623 or by email at ADH.Water.Licensing@arkansas.gov.

If you have not renewed because you are short renewal hours, the Regulations allow hours to be obtained until June 30, 2014 to meet the 2013 renewal requirements. Licenses not reinstated by June 30, 2014 are lost.

It is the operators' responsibility to see that their license is renewed regardless of the receipt of a renewal invoice, the renewal being processed by their utility, or receipt of the renewal documents by the license program. The operator needs to verify their license renewal by watching for the receipt of their renewal wallet card with a June 30, 2015 expiration date. To assist you in being sure your license is renewed, this newsletter contains lists of license holders not renewed.

Water Distribution Components, NSF, and the New Lead Free Definition

Jeff Stone, P.E., Director

On May 13, 2013, the Engineering Section began mailing public water systems a letter reminding them of the upcoming changes in definition of “lead free” as it pertains to water system and plumbing components. The amount of lead allowed in water system and plumbing components is set by federal law. In this case, Federal law 11-380 reduced the amount of lead that water system components can contain and the requirements of that law become effective on January 4, 2014.

It is the responsibility of the water systems to ensure that after January 4, 2014, the components that they utilize are in compliance with the new lead limitations. It is not required to remove any old components from service, however, any components installed, after January 4, 2014, either as a new installation or as part of a repair, must be in compliance with the new lead limitations.

Water systems can plan for these changes by reviewing the National Sanitation Foundation (NSF) Standard 61 certified product listings found on the NSF webpages or Underwriters Laboratories webpages. Product vendors should also be able to provide documentation of product certification. The Arkansas Department of Health’s Rules and Regulations Pertaining to Public Water Systems require that all materials in contact with potable water be certified as being in compliance with ANSI/NSF Standard 61. Many suppliers of water system components have already documented their products compliance with the new “no lead” requirements and their product listings will have a footnote indicating that the products also comply with Annex G, NSF/ANSI 372. If a product does not comply with Annex G, NSF/ANSI 372, it is possible the product will be de-certified with regards to NSF Standard 61 by January 4, 2014. If de-certified, the product may no longer be utilized and will have to be discarded. Utilization of a de-certified product, or any product not certified with regards to NSF Standard 61, would constitute a violation of the Arkansas Department of Health’s Rules and Regulations Pertaining to Public Water Systems which require that only materials certified as being in compliance with NSF/ANSI Standard 61 be utilized. It is important to note that while the new federal requirements exempt certain

components including distribution main gate valves 2 inches in diameter and larger from the lower lead requirements, they must still maintain NSF 61 certification. Components that comply with the new lead free definition will be also be certified to NSF Standard 372 or Annex G of NSF Standard 61.

If a water system is uncertain whether a product, either for sale or already in the water systems inventory, will maintain its certification with regards to NSF 61, they should contact the vendor for documentation with regards to these requirements.

Currently, the Engineering Section at the Arkansas Department of Health is in the process of modifying the Rules and Regulations Pertaining to Public Water Systems in order to clarify that the certifications required to document compliance with the new lead free requirements are NSF Standard 372 or Annex G of NSF Standard 61.

If you have any questions, please feel free to contact me at jeffery.stone@arkansas.gov or 501-661-2623.

Enter Your System to Win the Exemplary Source Water Protection Award!

Stephanie Burchfield, Environmental Specialist

Do you think your water system has the best source water protection program? Then the ADH Source Water Protection group would like to encourage you to submit your system for the Exemplary Source Water Protection Award. This is an annual honor awarded by the American Water Works Association (AWWA) for up to three drinking water systems or organizations that have shown exemplary source water protection in North America. Award plaques will be bestowed on the winners at the Annual Conference and Exposition held by AWWA.

Submission deadlines for 2014 awards are January 15, 2014. Eligible drinking water systems or organizations must submit four copies of the completed entry form and application report. There is a 20-page limit to application reports.

Detailed award and application information as well as a link to the entry form can be found at the following URL:

<http://www.awwa.org/membership/get-involved/awards/award-details/articleid/90/exemplary-source-water-protection-award.aspx>

Major Monitoring, MCL, Treatment Technique, & Licensing Violations

Community & Nontransient Noncommunity Public Water Systems, April - June, 2013

AMITY WATERWORKS	DBPR 4, 5, 6	MONTGOMERY CO	DBPR 4, 5, 6
URELLE WATER SYSTEM	Bmon 6	MONTROSE WATERWORKS	Bmon 4, 5
BANKS WATERWORKS	Bmon 4, 5	MORO WATERWORKS	BMCL 4
BANKS WATERWORKS	DBPR 4, 5, 6	MT SHERMAN WATER	RMCL 4, 5, 6
BEDFORD FALLS MHP	Bmon 6	NASHVILLE RURAL WATER	Bmon 6
BEULAH GROVE WATER	OperLic 4, 5, 6	NORTH PIKE CO RURAL WATER	DBPR 4, 5, 6
BLUE MOUNTAIN WATERWORKS	DBPR 4, 5, 6	NORTHERN OHIO WATER	Bmon 4
BODCAW RURAL WATER	DPBR 4, 5, 6	OLD UNION WATER	DBPR 4, 5, 6
BOWSER WATER ASSN	OperLic 4, 5, 6	OAK GROVE WATER	BMCL 5
CAVE SPRINGS WATERWORKS	Bmon 5	OZARK MTN REG PWA	BMCL 4, 5
CHARLESTON WATERWORKS	DPBR 4, 5, 6	PARIS WATERWORKS	SWTR 6
COMPTON WATERWORKS	OperLic 5, 6	PLAINVIEW WATER	DBPR 4, 5, 6
CORNING	BMCL 5	RATCLIFF WATERWORKS	DBPR 4, 5, 6
DANVILLE WATERWORKS	DBPR 4, 5, 6	RAVENDEN SPRINGS	Bmon 6
DEER RUN WATER COMPANY	BMCL 5	SDM WATER ASSOCIATION	RMCL 4, 5, 6
DEER RUN WATER COMPANY	Bmon 6	SDM WATER ASSOCIATION	FMCL 4, 5, 6
DENNING WATERWORKS	Bmon 5	SE WHITE COUNTY WATER	Bmon 6
DERMOTT WATERWORKS	DBPR 4, 5, 6	SOUTH MOUNTAIN WATER	RMCL 4, 5, 6
DIAMOND CITY WATER	Bmon 5	STAR CITY WATERWORKS	Bmon 6
DOTA WATER ASSOCIATION	Bmon 6	TOLLETTE	BMCL 6
FRENCHPORT WATER	Bmon 5	VANDERVOORT WATERWORKS	Bmon 6
GATEWAY PUBLIC WATER	Bmon 5	VIOLA WATERWORKS	Bmon 6
GATEWAY PUBLIC WATER	DBPR 5	WALKER WATER ASSOCAITION	DBPR 4, 5, 6
GOULD MUNICIPAL WATER	Bmon 5	WARD MHP	BMCL 4
GRASSY KNOB SUB SD	BMCL 6	WATSON WATERWORKS	DBPR 4, 5, 6
HICKORY RIDGE	BMCL 6	WATSON WATERWORKS	GWR 5
HORSESHOE HOMES	BMCL 6	WIEDERKEHR VILLAGE WATER	Bmon 5
HOSANNA HEIGHTS WATER	GWR 5	DEPT	
LAKE VILLAGE	BMCL 4	WILLISVILLE WATERWORKS	Bmon 4
LAKESIDE WATER ASSOC	BMCL 6	YARBRO WATERWORKS	Bmon 4
MAGAZINE WATERWORKS	DPBR 4, 5, 6		
MAYNARD WATERWORKS	Bmon 4		
MENA WATER DEPT	DBPR 4, 5, 6		
MENA WATER DEPT	Bmon 5		
MENA WATER DEPT	SWTR 6		
MILLTOWN-WASHBURN	DBPR 4, 5, 6		
MINERAL SPRINGS	BMCL 5		

KEY: Bmon = Bacti Monitoring; BMCL = Bacti MCL; Dmon = Disinfection By Product Rule Monitoring; DBPR=Disinfection By Product Rule MCL or Treatment Technique; GWRMCL=GWR Treatment Technique; GWRmon= GWR Monitoring or Reporting; Tmon = SWTR Major Monitoring; TMCL = SWTR Treatment Technique; SWTR= Various SWTR requirements; Failure to Filter; RMCL = Radiochemical MCL; FMCL = Fluoride MCL; IMCL=Inorganic Chemical MCL; SMCL = Synthetic Chemical MCL; OperLic = Operator Licensing; 4 = April 2013, 5 = May 2013, 6 = June 2013

Association of Boards of Certification Seeks Volunteers

Martin Nutt, Certification Officer

The Association of Boards of Certification (ABC) is a nonprofit member driven organization to promote operator certification as a means of protecting public health and the environment. ABC utilizes dedicated industry volunteers, referred to as Subject Matter Experts (SMEs), who give of their time, knowledge and expertise. ABC through its Certification Commission for Environmental Professionals (C₂EP) strives to be a driving force in creating and maintaining certification standards. C₂EP is presently seeking out SME's for its Examination Development Subcommittees in charge of developing exam item banks and maintaining standardized exams (i.e., Water Treatment, Water Distribution, Wastewater Treatment) for C₂EP certification programs which includes Arkansas. C₂EP SMEs routinely credit their volunteer experience with fostering important personal and professional relationships while growing their knowledge and boosting confidence in their daily work and interactions. Individuals serving on one of these committees also receive funding for C₂EP related travel.

Associations like ABC are entirely dependent on their volunteers. Please contact Martin Nutt, Training and Certification Officer, Engineering Section if you have an interest in volunteering for a C₂EP committee.

Additional volunteer Information: <http://www.abccert.org/volunteer/GetInvolved.asp>

Water Operator Licenses Issued, JUNE 1, 2013 THROUGH AUGUST 31, 2013

LICENSEE NAME	GRADE/TYPE	WATER SYSTEM NAME
ADAMS LINSLEY	D - II	CROSSETT WATER COMMISSION
ASHCRAFT CHRIS	T - II	ADC - TUCKER UNIT MAINT
BAKER ZACH	D - IV	PIGGOTT WATERWORKS, POLLARD WATERWORKS
BELLOT MELISSA	T - III	LITTLE RIVER CO RDA
BRATTON JOHNNY	D - IV & T - IV	HOT SPRINGS VILLAGE WATERWORKS
BREEDLOVE BILLY	D - II	HARRISON WATERWORKS
BREWER ROGER	T - II	CHIDESTER WATER WORKS
BURRIS JAMES	T - II	REMINGTON ARMS COMPANY
BURSON ROBERT	D - II	HASKELL WATER SYSTEM
BUZBEE JONATHAN	T - II	DEQUEEN WATER WORK
CARTER KENNETH	T - III	MARION COUNTY REG WATER DIST
CHRISTIANSON LOREN	D - I	VAN BUREN WATERWORKS
CROSBY LUCAS	T - II	CHERRY VALLEY WATERWORKS
DAVIS RICK	D - IV	VAN BUREN WATERWORKS, OAK GROVE WATER.
DAVIS RICK	D - IV	OAK GROVE WATER ASSOCIATION
DEWEY JOHNNY	T - IV	MOUNTAIN HOME WATERWORKS
DOBBINS TODD	D - II & T - II	REDFIELD WATERWORKS
DUNGAN MELODIE	D - I	HOSANNA HEIGHTS WATER
ELLIS RANDY	D - II & T - I	OZARK WATERWORKS
FARRIS SALLY	D - I	OLD BELLA VISTA POA
GOLDEN JAROD	D - II	MULBERRY WATERWORKS
GRAHAM PHIL	T - IV	CLINTON WATERWORKS
GREER WILLIAM	D - I	MARION WATERWORKS, EARLE WATERWORKS
GREGORY RICHARD	D - II	CONCORD WATER & SEWER PFB
HATTABAUGH STEVEN	D - I	BENTON COUNTY WATER AUTHORITY4
HAWKINS TIMOTHY	D - III	TONTITOWN WATERWORKS
HILL WALTER	D - I	NOT PROVIDED
HOOD JESSIE	D - IV	BENTON WATERWORKS
HOWELL CODY	T - II	HOT SPRINGS UTILITIES
HUNTER MATTHEW	T - I	MC CRORY WATERWORKS
HUTCHENS SANDRA	T - II	WALDRON WATERWORKS
JEREMIAH CASEY	D - IV	FORT SMITH WATER UTILITIES
JESSEN JAMES	D - IV	BELLA VISTA POA
JONES CHRIS	D - I	MAMMOTH SPRING WATERWORKS
JONES WILSON JOANN	T - II	WARD WATERWORKS
KINDY DENNIS	D - IV	SILOAM SPRINGS WATERWORKS
LARSON DALTON	D - II	HARRISON WATERWORKS
LIEBLONG WARREN	D - IV	CONWAY WATER SYSTEM
LOWE FRANKIE	D - I	HOLIDAY ISLAND WATERWORKS
LUTZ MARK	T - I	BEEBE WATERWORKS
MANSFIELD JERRY	D - I	RECTOR WATERWORKS
MCGRIFF THOMAS	D - I	LADD WATER ASSOCIATION
MCNABB ROBERT	T - I	ENTERGY - INDEPENDENCE
MORROW SHAWN	T - II	SHUMAKER PUBLIC SERVICE CO
MOSS KEVIN	D - II	SPARKMAN WATERWORKS, TULIP - PRINCETON
NYANDER TIMOTHY	D - IV	FAYETTEVILLE WATERWORKS
OLUP ROBERT	D - II	DORCHEAT WATER ASSOCIATION
PATTON ROBERT	D - II	HORSEHEAD WATER ASSOCIATION
PECK DARROL	D - I	COMMUNITY WATER SYSTEM
RICE RICHARD	T - I	FORREST CITY WATERWORKS
ROE DAVID	D - II	ARSENAL WATER SYSTEM
SCHLUTERMAN HERMAN	T - III	PARIS WATERWORKS, SCRANTON WATERWORKS
SEATON TIMOTHY	D - IV	COMMUNITY WATER SYSTEM
SHADDON KYLE	D - II	TRI-COUNTY WATER DISTBR DIST
SHIGLEY RAINE	T - I	BOONEVILLE DEVELOPMENT CENTER
SPENCER SHANE	T - I	LONOKE WATERWORKS
STACY LARRY	D - IV	ALTUS WATERWORKS
STAGGS STEWART	T - II	WALDRON WATERWORKS
STEELY BRADLEY	T - IV	CLINTON WATERWORKS
STEPP BEN	D - IV	CLARKSVILLE WATERWORKS
TEDFORD CHRISTOPHER	D - IV	CONWAY WATER SYSTEM
THOMPSON TONYA	D - II	ST FRANCIS RIVER REG WATER DD
TURNER CRISTOPHER	T - I	BOONEVILLE DEVELOPMENT CENTER
WAGONER KIRK	D - III & T - III	NOT PROVIDED
WARD RICHARD	T - II	OGDEN WATERWORKS
WILLIAMS BOBBY	D - III	BROOKLAND WATERWORKS
YANDELL KRISTOPHER	D - II	EUREKA SPRINGS WATERWORKS
YATES JEFFERY	T - III	HOPE WATER LIGHT COMM

REPORT OF THE Arkansas Drinking Water Advisory and Operator Licensing Committee

Martin Nutt, Training and Certification Officer

The Arkansas Drinking Water Advisory and Operator Licensing Committee held its quarterly meeting on July 16, 2013 in Lonoke, Arkansas. Committee members present were: Susan Merideth, P.E., Committee Chair, Jonesboro City Water and Light; Matthew Dunn, P.E., Committee Chair Elect, Crist Engineers, Inc.; Tim Shaw, Community Water System; Stacy Cheevers, Beaver Water District; Roger Moren, Sardis Water Association; and Jeff Stone, P.E., Executive Secretary, Arkansas Department of Health (ADH). One member Dr. Findlay Edwards, P.E., University of Arkansas was unable to attend. ADH staff & guests present were: Martin Nutt, Training and Certification Officer, ADH; Ida Hampton, Administrative Specialist, ADH; Randy Harper and Jonathan Richardson, Arkansas Environmental Training Academy (AETA); and Dennis Sternberg, Arkansas Rural Water Association.

Stone introduced new Committee Member Roger Moren, General Manager, Sardis Water Association. Mr. Moren joined the Sardis Water Association in 1985 and he holds both a Distribution IV and Treatment IV Water Operator Licenses. The Arkansas State Board of Health appointed Mr. Moren on April 25, 2013 to serve on the Arkansas Drinking Water Advisory and Operator Licensing Committee for a term of office extending through June 30, 2019.

The Committee confirmed Merideth as Chair from Chair-Elect. The Committee nominated and elected Dunn as Chair-Elect.

Standing Business

The Committee reviewed and approved the minutes from the April 11, 2013 meeting. The Committee did not have a High School waiver to consider.

Old Business

Stone reviewed comments received in reference to the Committee's recommended license program and regulation changes. He stated very few comments had been received with most being in verbal form. Several comments did not support the limitation for using mandatory courses for renewal. Received comments supporting and opposing the requirement that mandatory courses be taken in a specific logical order. The comments were generated from presentations Nutt made at the AWW&WEA Annual Conference, three AWW&WEA District meetings, and a Drinking Water Update article in the Spring 2013 edition. He summed up the comments by indicating the Section wanted to use the comments and Committee recommendations as a blueprint to grow the license program and considered valid the expansion of select 24-hour courses, the Section should consider modifying the ADH Compliance course, and the other systemic training changes be further considered. He stated the Section planned over the next year to not initiate regulation changes, but to monitor the effects on training courses offered as the two training provider adjust to the loss of OpCert/SRF training funds from the Section. In addition, the delay will allow the Section to implement, discussed next, significant exam process changes. The loss of training funds and the necessary exam process changes are significant concerns and he felt delaying the regulation revisions was the best to avoid a significant disruption to the industry and license applicants' ability to license. Discussion followed about the number of comments received, clarification on the efforts made to inform the operators of the suggested changes, the value of the training, and the importance of changing the math courses to focus more on math basics to improve the average operators math foundation.

Stone addressed needed changes in the exam process. He noted currently the Section was providing around 55-exam sessions per year with an average attendance of seven, noting some session might have 15 others three. He indicated the only License Law or License Regulation requiring an exam session were those requested to be held with industry related annual conferences. The Section has a large degree of latitude in when exam sessions can be held. Stone discussed changes in the actual exam processing procedures required by the Section license exam provider, the Association of Boards of Certification. The most critical change is a requirement that we stop using in-house held exam masters and start ordering exams on an as needed basis, with no ability to maintain a stock of exams to continue our "long held" exam session procedures of serving operators with no prior arrangement for that exam. The ABC is also changing the level of support provided to Arkansas' present "customized" exams and this lost support will require the use of ABC's national "standardized" exams. Please see related front-page in-depth article for additional information on these changes.

New Business

Stone stated the Section would be petitioning the Board of Health at its July 25, 2013 meeting to allow the Section to move forward with regulation making for revisions to the Rules and Regulations Pertaining to Public Water Systems. The two primary reasons for the revisions are to obtain a new authorization date to incorporate by reference recent SDWA regulation changes, primarily the Revised Total Coliform Rule. Revisions are also needed to address the recent federal no lead requirements in water system components, primarily brass and bronze fittings, the revisions will clarify which NSF/ANSI standards the components must meet. Related articles are in this newsletter edition. Stone concluded his discussion on regulation changes by reviewing the public/water system involvement in the approval process. The Committee concluded by passing a motion of support for the regulations revisions.

The Committee reviewed reciprocity guidance for the State of Ohio in response to a request from an Ohio operator to reciprocate their Ohio water licenses. The Committee reviewed the supplied matrix outlining the recommendation from Nutt on equivalency of Ohio Licenses to Arkansas Licenses. The Committee took exception to a requirement that operators reciprocating a license to Arkansas must attend the ADH Compliance as part of their required license renewal hours. The Committee approved the presented guidance with a revision requiring completion of the Compliance course prior to allowing the license to reciprocate.

The Committee was provided the Section's draft SDWA Operator Certification Guidelines Report for review and comment. The report is to document how the Licensing Program is meeting EPA Water Licensing Program Guidelines to avoid a SRF Grant Capitalization penalty. He reviewed the critical components of the report and thanked the Committee for their comments.

Committee Reports

The Committee accepted a request from Sternberg to provide his report first to allow him to meet other commitments. He reported ARWA could tell it was renewal time based on class attendance numbers. He noted ARWA's Specialty Courses, which provide an operator their needed renewal hours in a 24-hour current topics class have been well attended this spring. He concluded his report by noting they had 146 at their June Expo.

Stone, in his Section Director's report, provided the Committee an update on Section finances noting the last service fee increase was in 2007 and the 30-cent fee adjusted for inflation was now worth approximately 26 cents in equivalent purchasing power. He reported the Section had recently chosen not to fill an administrative position and an environmental specialist position to help ensure the Section's budget remains sound. He provided a brief status report of a recent EPA Audit at Merideth's request.

Nutt provided a Licensing Program report. He referenced a spreadsheet handout titled "Water License Exam Report" pointing out where the present exams scoring performance was shown on the spreadsheet noting a new line showing passing rates for exams for the last year. He noted the rates changed little from the rates overall for the present exams. He expressed his continuing concerns for the low T-4 and D-3 passing rates. He reviewed a summary of compliance enforcement efforts, taken by the Section. He reported Banks Waterworks, Bowser Water Association, and Dermott Waterworks were under a Warning of Administrative Order with an Administrative Order to be issued in late July 2013; Walker Water Association is under an Administrative Order with a penalty hearing needed; Beulah Grove Water Association and Watson Waterworks are under expired consent orders with additional administrative procedures to be implemented. A penalty hearing for licensing noncompliance and water quality issues was held for Danville Waterworks, with the hearing being suspended for 30 days to allow Danville to negotiate a compliance agreement. Nutt concluded his reports with a note that 3580 renewal invoices, representing 2450 operators, were mailed mid-May, 2822 invoices have been paid, 2066 renewal cards have been mailed, which leaves 756 being processed. The \$5.00 penalty invoices for operators that have not submitted their renewals will be mailed August 1, 2013. A final renewal effort will be a newsletter article listing all operators who have not submitted their renewal.

Harper provided the Arkansas Environmental Training Academy Report. He provided training class information and reported AETA's new environmental training lab was completed and a dedication service was scheduled for August 6, 2013. He invited the Committee to attend. He noted AETA's annual Train the Trainer, with 22 plus adjuncts expected to attend, was hopefully, going to be rescheduled to coincide with the dedication ceremony.

Other Business

The Committee confirmed their next meeting date for October 10, 2013 and adjourned.

Mandatory Training Course Schedule

Most Current Listing and when available the 2014 schedule is at:
www.healthy.arkansas.gov/eng/autoupdates/oper/mandtrngall.htm.

Please contact the course sponsor to register for course well in advance of course date.

(Please note all mandatory courses begin at 8:00 a.m.)

Mandatory Course Name	START DATE	ENDING DATE	Time	CITY	LOCATION	SPONSOR
Intermediate Water Treatment	10/01/13	10/15/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Intermediate Distribution	10/08/13	10/10/13	8:00 AM	Mt. Home	Charles R Newton Emer Serv Trng Center, Midway	ARWA
Basic Water Math	10/08/13	10/08/13	8:00 AM	Russellville	Tri-County Water, 5306 N Arkansas Ave	AETA
Applied Water Math	10/09/13	10/09/13	8:00 AM	Russellville	Tri-County Water, 5306 N Arkansas Ave	AETA
PWS Compliance	10/10/13	10/10/13	8:00 AM	Russellville	Tri-County Water, 5306 N Arkansas Ave	ADH
Intermediate Water Distribution	10/15/13	10/30/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Basic Math	10/22/13	10/22/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Intermediate Water Treatment	10/22/13	10/24/13	8:00 AM	N Little Rock	CAW Maryland Complex, 1500 W Maryland Ave	AETA
Applied Math	10/23/13	10/23/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
ADH Compliance	10/24/13	10/24/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ADH
Advanced Treatment	10/29/13	10/31/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Advanced Water Treatment	11/01/13	11/15/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Basic Water Distribution	11/05/13	11/07/13	8:00 AM	Camden	AR Env Training Academy, 100 Carr Road	AETA
Intermediate Treatment	11/05/13	11/07/13	8:00 AM	Nashville	Carter Day Center, 200 Nichols Drive	ARWA
Advanced Distribution	11/12/13	11/14/13	8:00 AM	Mt. Home	Charles R Newton Emer Serv Trng Center, Midway	ARWA
Basic Treatment	11/12/13	11/14/13	8:00 AM	Fayetteville	Utilities Operations Center, 2435 S Industrial Dr	AETA
Advanced Water Distribution	11/15/13	11/30/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Basic Distribution	11/19/13	11/21/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Advanced Water Treatment	11/19/13	11/21/13	8:00 AM	Maumelle	Wastewater Plant Training Rm, 425 B Hyman Drive	AETA
Basic Water Math	12/01/13	12/15/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Applied Water Math	12/01/13	12/15/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Basic Treatment	12/03/13	12/05/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Advanced Treatment	12/10/13	12/12/13	8:00 AM	Nashville	Carter Day Center, 200 Nichols Drive	ARWA
Basic Math	12/17/13	12/17/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Intermediate Water Distribution	12/17/13	12/19/13	8:00 AM	Camden	AR Env Training Academy, 100 Carr Road	AETA
ADH Compliance	12/18/13	12/18/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ADH
Applied Math	12/19/13	12/19/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA

The most current Mandatory Training Schedule with location information is available at
<http://www.healthy.arkansas.gov/eng/autoupdates/oper/mandtrngall.htm>

WATER OPERATOR LICENSE EXAMINATIONS SCHEDULE

The most current and when available the 2014 Exam Schedule is at:
<http://www.healthy.arkansas.gov/eng/autoupdates/oper/operexam.htm>

Listed below are the dates and locations of examination sessions as scheduled, as of **September 10, 2012**. All Treatment and Distribution exam grades will be available at the sessions. Acceptable photo identification (Drivers License or equivalent) will be required to sit for an Exam. Cell phones, pagers and other electronic communication devices are not allowed. Non-Programmable calculators are allowed in exam sessions.

DATE	CITY	LOCATION	TIME
10/11/2013	Mtn Home	Baxter Co OEM Training Facility, 170 Dillard	9:00:00 AM
10/25/2013	N Little	CAW Maryland Complex, 1500 West	9:00:00 AM
11/1/2013	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00:00 AM
11/8/2013	Camden	AR Environmental Training Academy, 100	9:00:00 AM
11/8/2013	Nashville	Carter Day Center, 200 Nichols Drive	9:00:00 AM
11/15/2013	Fayetteville	Fayetteville Operations Center, 2435 S	9:00:00 AM
11/15/2013	Mtn Home	Baxter Co OEM Training Facility, 170 Dillard	9:00:00 AM
11/22/2013	Maumelle	Wastewater Plant, 425 B Hyman Drive	9:00:00 AM
11/22/2013	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00:00 AM
12/6/2013	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00:00 AM
12/13/2013	Nashville	Carter Day Center, 200 Nichols Drive	9:00:00 AM
12/20/2013	Camden	AR Environmental Training Academy, 100	9:00:00 AM

The above exam session information is subject to change. You should confirm this information just prior to the scheduled examination period. You may confirm the session or its location by contacting your District Specialist or Engineer at (501) 661-2623. Also, the latest exam schedule information can be viewed on the Internet at:

< <http://www.healthy.arkansas.gov/eng/autoupdates/oper/operexam.htm> >.

Please verify that your license application has been filed with this office and that the required exam fee for each exam has been paid. The license exams require significant preparation prior to sitting for the exam. The preparation must include extensive study utilizing the study guide and recommended reference materials. Credit for the mandatory Certification Training Courses must be obtained before taking an exam. Copies of your training documentation must be provided to the exam proctor.

American Water Works Association Southwest Section Annual Meeting Little Rock Marriott, Little Rock, AR October 13 - 15, 2013

www.swawwa.org/annual-conference-home

The conference consists of two (2) full days of training. There will be three (3) training topics offered each session, with six (6) sessions each day. Typically, no training topic is repeated. There will be an exhibit hall with a wide selection of water industry related companies displaying their latest and best products. The conference is approved for a total of 16 contact hours of directly applicable water license training credit for full participation.

This conference does not provide any mandatory training courses for licensing exams nor license exams.

Return Service Requested

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AWW&WEA District Meetings

See also the Division's web site www.healthyarkansas.com/eng/ for updates.

DATE	TIME	CITY	LOCATION	SPONSOR
<u>October 2013</u>				
3	5:00 PM	Benton	Benton WTP	Central District, AWW&WEA
3	5:30 PM	Fort Smith	Golden Corral	Western District, AWW&WEA
9	8:30 AM	Eureka Springs	Best Western Inn	Northwest District, AWW&WEA
10	5:00 PM	Russellville	Western Sizzlin	AR Valley District, AWW&WEA
10	5:00 PM	Pleasant Plains	Tadpole's Catfish Barn	North Central District, AWW&WEA
10	5:00 PM	West Memphis	West Memphis Water Office	Eastern District, AWW&WEA
15	5:00 PM	Monticello	Western Sizzlin	Southeast District, AWW&WEA
17	12:30 PM	Lake City	WinWater	Northeast District, AWW&WEA
24	6:00 PM	Magnolia	Western Sizzlin	Southwest District, AWW&WEA
<u>November 2013</u>				
7	5:00 PM	Conway	Church of the Nazarene	Central District, AWW&WEA
7	5:30 PM	Mountainburg	Lake Fort Smith WTP	Western District, AWW&WEA
7	5:00 PM	Forrest City	Catfish Island	Eastern Central District, AWW&WEA
13	8:30 AM	Berryville	Berryville Community Center	Northwest District, AWW&WEA
14	5:30 PM	Russellville	Western Sizzlin	AR Valley District, AWW&WEA
14	5:00 PM	Pleasant Plains	Tadpole's Catfish Barn	North Central District, AWW&WEA
19	5:00 PM	Crossett	Country Vittles	Southeast District, AWW&WEA
21	12:30 PM	Jonesboro	Western Sizzlin	Northeast District, AWW&WEA
21	6:00 PM	Hope	UACCH	Southwest District, AWW&WEA
<u>December 2013</u>				
5	5:00 PM	TBD	TBD	Central District, AWW&WEA
5	5:30 PM	Fort Smith	Golden Corral	Western District, AWW&WEA
11	8:30 AM	Fayetteville	Fayetteville Town Center	Northwest District, AWW&WEA
12	5:00 PM	Brinkley	TBA	Eastern District, AWW&WEA
12	8:30 AM	Russellville	Western Sizzlin	AR Valley District, AWW&WEA
12	5:00 PM	Pleasant Plains	Tadpole's Catfish Barn	North Central District, AWW&WEA
17	5:00 PM	Star City	FUMC Family Life Ctr	Southeast District, AWW&WEA
19	12:30 PM	Joneboro	Ron's Catfish	Northeast District, AWW&WEA
<u>(no December Meeting)</u>				