

Vol. 12, Issue 2 • Spring 1997

# COUNTDOWN TO CORROSION CONTROL LEAD AND COPPER RULE UPDATE

by Chris Hughes, PE Kurt Putnam, RS

<u>Monitoring Status.</u> Of the 1,210 community and nontransient non-community public water systems required to test for lead and copper at the customer tap, 1,185 or 98% have conducted at least the first round, and 1,000 or 82% have conducted the second round of sampling. Enforcement is proceeding on those public water systems which have not conducted the first round of monitoring for lead and copper at the customer tap.

Of those public water systems which have conducted lead and copper testing, 240 exceeded an action level (25%). The number of public water systems exceeding copper (144), slightly outnumbered those water systems exceeding lead (118), and 40 public water systems exceeded both lead and copper action levels. There are 60 schools on this list which are a high priority for the Drinking Water Program because of the affected population. (Note: the action level for lead is 0.015 mg/l and for copper is 1.3 mg/l, and applies to the 90th percentile of all lead and copper samples taken during the compliance period)

Requirements When an Action Level is Exceeded.

When a water system exceeds an action level at the 90th percentile, the water system is required to take two sets of water quality parameters (pH, alkalinity, conductivity, calcium, and temperature), to characterize the corrosivity of the drinking water. Water quality parameter monitoring is required during the same six month compliance period when the lead and/or copper action level was exceeded. Testing for source lead and copper is required in the following six month compliance period, but for convenience, most water systems test for source lead and copper when testing for water quality parameters. There are no further requirements for monitoring for lead and copper at the customer tap until <u>after</u> corrosion control treatment is installed.

Those water systems which exceeded the <u>lead</u> action level are required to meet the public education requirements every six months and submit a report to the Drinking Water Program at the end of each year

## MEASURING PROGRESS TOWARD SAFE DRINKING WATER - THE OREGON SAFE DRINKING WATER BENCHMARK

by Dave Leland, PE

The Oregon Safe Drinking Water Benchmark is intended to measure progress of both the drinking water program and public water suppliers as we implement safe drinking water standards in Oregon. As you might guess, it is extremely difficult to characterize the status of Oregon's public drinking water systems within the confines of a single measure of progress. Nevertheless, we have taken a close look at our program focus and priorities, and with the help of the Drinking Water Advisory Committee, constructed the following Benchmark:

# "The percentage of Oregonians served by public drinking water systems that meet all health-based standards continuously during the year"

Meeting all health-based standards at all times during the year is an important indicator of drinking water safety. The benchmark includes the following healthbased standards, listed from highest to lowest health risk:

- E. Coli (or fecal coliform) bacteria maximum contaminant level
- Surface water treatment performance levels:
  - Meet minimum filtration treatment (95% turbidity levels)
  - Meet disinfection treatment levels (CxT)
- Nitrate/Nitrite maximum contaminant levels
- Chemical/Radiological maximum contaminant levels
- Lead action level (confirmed)
- Total coliform bacteria maximum contaminant level
- Copper action level (confirmed)

Included in the benchmark are about 1300 public water systems, including all community systems, all nontransient noncommunity systems, and the larger transient noncommunity systems (serving over 500 people per day). The list of those water systems that *continued on page 2* 

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Lead and Copper (continued from page 1)

that this was accomplished. Public education must continue until the water system no longer exceeds the lead action level at the 90th percentile. There are no public education requirements for exceeding the copper action level.

Water systems which exceed a lead and/or copper action level must submit a corrosion control treatment proposal in writing to the Drinking Water Program by the end of the next six month compliance period. This letter must describe the proposed method selected by the water system to meet the intent of the lead and copper rule. Any supporting information or data documenting this decision by the water system is also needed for review by the Drinking Water Program. The review of the corrosion control treatment proposal is usually completed and a written response is sent to the water system within a week.

<u>Corrosion Control Compliance Timeline</u> All small and medium community and non-transient non-community water systems (less than 50,000 population served) that exceeded an action level for lead and/or copper in the first round must have corrosion control treatment installed by <u>January 1, 1998</u>. The letter of proposed treatment from the water system must be submitted to the Drinking Water Program for review and approval, and construction plans must be reviewed and approved prior to corrosion control treatment installation. Time is growing short.

Water systems which are required to have corrosion control treatment installed by January 1, 1998, but are unable to comply will be subject to enforcement by the Health Division.

<u>Technical Assistance</u> Field staff from the Drinking Water Program or the County Health Department will be contacting those community and non-transient noncommunity water systems which exceeded an action level, and meet to discuss these requirements and the current status for their water system. This meeting should take place within the next six months.

At the end of the visit, each water system will know exactly what is expected from them and when it will be required in order to remain in compliance with the lead and copper rule. Any questions or any need for additional information can be directed to Kurt Putnam at the Drinking Water Program in Portland ((503) 731-4317), or your local County Health Department. Measuring Progress (continued from page 1)

meet all the above health-based standards during the year will be published for each calendar year, along with the percentage of the combined population of these systems compared to the total population served by all benchmark systems. We will also construct an annual listing of water systems that failed to meet health-based standards, listing the specific standards not met. The safe drinking water benchmark is also proposed by EPA for use at the national level as an "environmental indicator of water quality", and therefore state-to-state comparisons and comparison to a national average should be possible.

## **The Oregon (and EPA) goal is to reach 95% by 2005.** Results so far: 1994-49%, 1995-50%, 1996-

56%, 1997-75%. The 1997 figure projects successful implementation of corrosion control treatment by the Portland Water Bureau. Needless to say, it is very important that water suppliers make a concerted effort to meet safe drinking water standards all the time, to protect public health and to demonstrate positive progress over time toward meeting the goal!

Dave Leland, P.E., is Manager of the Drinking Water Program

# THINKING ABOUT UPGRADING YOUR CERTIFICATION?

by Mary Alvey, RS

Regularly scheduled exams are held twice a year. We receive 150 to 230 applications for each exam. Many are new operators but an increasing number are operators who want to qualify for a higher grade for advancement in their current job or to take on more responsibility or a new position at another water system. This is beneficial for both the operator and water systems who are looking for qualified staff. The purpose of the certification program is to improve the quality of drinking water by having skilled operators who know how to operate distribution systems and treatment processes to obtain the best quality water possible, protect the public's health and to make wise and efficient use of their investment.

Before you apply for the next certification grade, you should be aware of the requirements so that you can be looking for experience and educational opportunities which will enable you to qualify for the exam. Grade 2 requires additional experience <u>or</u> a combination of experience and relevant post high school education. Grades 3 and 4 require a combination of experience <u>and</u> post high school education. Education must be in subject areas related to the operation, maintenance or management of a water system. These include basic

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science, math, equipment operation and maintenance, treatment processes, resource protection, water quality standards, measurements and testing, and public health regulations.

In general, an Associates Degree in Water/Wastewater Technology will equal 2 years and a Bachelor of Science in one of the natural sciences will equal 4 years. Miscellaneous credits, CEUs or degrees will be evaluated on an individual basis by looking at your transcripts and other documentation. Not all training you may receive is relevant to certification. You will need to submit documentation for any education you claim.

All certificates require some experience and you will need to document yours with affidavits signed by your employer or supervisor. You need to list your duties and responsibilities as well as the time.

Keeping the intent of the certification program in mind should help you make sure your education is relevant, and ensure that when you are ready to take the next step, you have the needed prerequisites.

If you are thinking of upgrading your certificate in the near future, you should request a complete set of Rules and a current application form which provides more detail.

Mary Alvey, RS, is the manager, Monitoring & Compliance Unit, Drinking Water Program

# **CROSS CONNECTION UPDATE**

by Bonnie Waybright, PE

The current list of approved backflow assemblies is dated February 1997. Call (503)731-4899 to request a copy.

# **Certification Renewal**

Backflow Assembly Tester and Cross Connection Inspector certificates expire on **June 30, 1997**.

Testers will need to submit proof of successful completion of a Backflow Assembly Tester Recertification (completed after June 30, 1995), proof of test gauge accuracy verification (dated July 1, 1996 or later), and the renewal fee. <u>Backflow Assembly Tester</u> <u>Recertification classes used for the 1995-97 certificate</u> will not be accepted for the 1997-1999 certificate, even if they were completed after June 30, 1995. Inspectors will need to submit proof of attendance at a Cross Connection Inspector Update (completed after June 30, 1995), *or* proof of 0.5 CEUs of cross connection related training (completed after June 30, 1995), with the renewal fee. Proof of CEUs must include documentation of the cross connection content of the training received. <u>Cross Connection Inspector Update classes and CEUs used for the 1995-97 certificate will not be accepted for the 1997-1999 certificate, even if they were completed after June 30, 1995.</u>

A \$50.00 late fee will be assessed to all applications received after July 31, 1997.

# **Possible Changes to Certification Requirements**

There is an effort underway to change the Backflow Assembly Tester and Cross Connection Inspector certification requirements. The introduction of <u>House</u> <u>Bill 2478</u> may increase the licensing requirements for commercial testers and contract inspectors.

House Bill 2478 is being sponsored by Representative Gardner at the request of the Oregon Association of Plumbing, Heating and Cooling Contractors, Plumbers and Steamfitters Local 290. This bill would add the following language to Oregon Revised Statute 448.279 (pertaining to the certification of Backflow Assembly Testers and Cross Connection Inspectors): "A person certified under this section shall also register as a contractor with the Construction Contractors Board as provided in ORS chapter 701".

If this bill passes, the result would be that all commercial testers would be required to obtain registration with the Construction Contractors Board before they could offer their services for payment. This could also affect Cross Connection Inspectors who contract their services.

Bonnie Waybright, PE, is Cross Connection Program Coordinator, Drinking Water Program



Drinking Water Program, Oregon Health Division Department of Human Resources P.O. Box 14450 Portland OR 97214-0450

PERIODICALS POSTAGE PAID PORTLAND OR

# TRAINING CALENDAR

#### Oregon Association of Water Utilities

Kevin Olson/(503)873-8353 Aug. 18-20 Summer Classic III (Tech. Conf.)

## **American Water Works Association**

(503)246-5845
es
Safe Drinking Water
Act Reauthorization
The Educated Con-
sumer: Communicating
With and Involving the
Public in Drinking
Water Issues

## **Utilities Services Specialists**

Dan DeMoss/(503)363-9038		
Jul. 18	Operations & Maint.	
Jul. 29-31	Treatment Plant	
	Operations	
Sep. 12	Small System	
	Management	

OCT, Inc.

(503)650-8735 Jul. 21-22 Fluoridation & Ozone

## **Arasmith Consulting Resources**

Event Solutions Amy Fries/(541)928-5055 Aug. 26-28 Pumps & Pumping Sep.30-Oct.2 Pumps & Pumping

## Linn-Benton Community College

Linda Dompier/(541)917-4636 Jul. 29-31 Water Treatment Plant Operation

#### Cross Connection/Backflow Courses

Backflow Management Inc. (B) 800-841-7689 Clackamas Community College (C) (503) 657-6958 ext. 2364 Backflow Assembly Tester Course Sep. 22-26 Oregon City (C)

#### Water System Training Courses Oregon Health Division

Oregon mea		
Mary Ann M	Ieehan/(503)731-4317	
Jul.*	Douglas and Lane Counties	
Aug.*	Lincoln County	
Sep.*	Eastern Region, Klamath	
	and Lake Counties	
*- dates and locations to be announced		

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