Lead Reduction Act Sean Nolan, E.I. Compliance Engineer LA DHH/OPH Engineering Services

Sources of Lead Exposure in Public Drinking Water

- * Concentrations of lead found in drinking water do not typically derive from natural sources.
- * Instead, the most common cause of lead concentrations in potable water is due to contamination from the gradual corrosion of water supply pipes and plumbing fixtures as well as the solder or flux used in their installation and repair.
- * Current regulatory efforts to control lead in drinking water focus primarily on reducing the lead content of these system components.

Health Effects of Lead Exposure

- Lead is a neuro-toxic metal that accumulates in both soft tissue and bones.
- * Is shown to have adverse health effects such as brain, nervous system, and blood disorders.
- * Children and infants are particularly sensitive to lead exposure . One of the major health effects being a delay in physical or mental development.

Previous Requirements

- * Safe Drinking Water Act Section 1417
- * Louisiana Plumbing Code, 2000 Edition

Lead Free Pipe and Fittings – containing not more than 8.0 percent lead. Lead Free Solder and Flux – containing not more than 0.2 percent lead.

Any pipe, solder or flux which is used in the installation or repair of any plumbing in a residential or nonresidential facility providing water for human consumption shall be lead free. This does not apply to leaded joints necessary for the repair of cast iron pipes.

All pipes, pipe fittings, solder, and flux used in the installation of water supply and distribution systems shall be lead free.

EXCEPTION: Leaded joints may be used for the repair of existing cast iron systems.

Reduction of Lead in Drinking Water Act

U.S. Senate Bill 3874

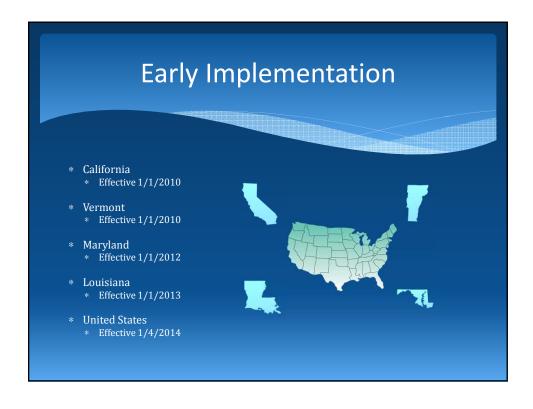
- * Signed by President Obama January 4, 2011
- * Becomes effective January 4, 2014

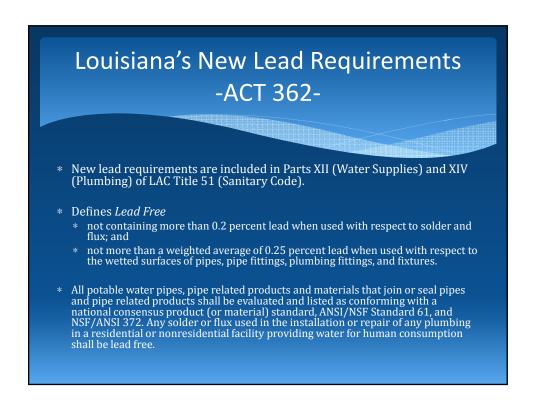
Louisiana House Bill 471

- * Signed by Governor Jindal June 29, 2012 (Act 362)
- * Became effective January 1, 2013

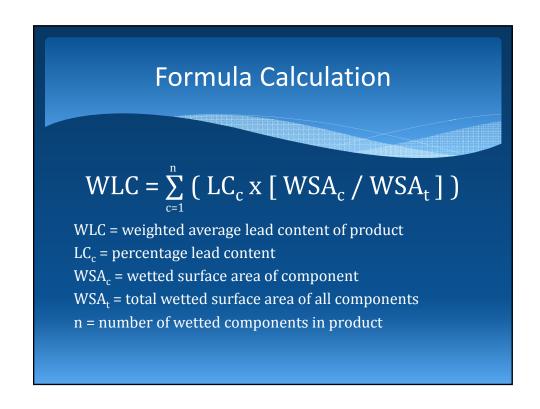
Regulatory Changes

- * Amends the definition of "lead free" by reducing the allowable lead content from 8.0 percent to a weighted average of not more than 0.25 percent of the wetted surface
- * Establishes statutory requirement for calculating lead content
- * Adds additional exemptions for water systems and plumbing fixtures <u>not used</u> for human consumption









Exemptions

- * Used exclusively for nonpotable services
 - * Manufacturing, industrial processing, irrigation
 - * Any instance when the water is not anticipated to be used for human consumption
- * For "toilets, bidets, urinals, fill valves, flushometer valves, tub fillers, shower valves, service saddles, or water distribution main gate valves that are 2 inches in diameter or larger"
- * Louisiana Materials purchased or acquired by a public water system prior to January 1st, 2013 can continue to be utilized until January 2014.

"Lead Free" Challenges

- * Demonstrating "Lead Free"
 - * Third party certification (NSF/ANSI)
 - * Manufacturer certification (including supporting information)
- * Identifying Potable versus Non-Potable Products
 - * Distributors having dual product lines
 - * Labeling of product (NL nonleaded)

* Potential loss of inventory – Inventory purchased and acquired prior to 2013 can be used until 2014 * Increased cost of lead free compliant components



Additional Resources

* Louisiana Administrative Code Online (Title 51)

http://doa.louisiana.gov/osr/lac/books.htm

* NSF - Low Lead Water Products Guide

http://www.nsf.org/business/mechanical_plumbing/annexg.asp#overview

* Underwriter's Laboratories

http://www.ul.com/global/eng/pages/offerings/industries/waterandfood/warer/productr/components/

Questions



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http://new.dhh.louisiana.gov/index.cfm/page/549/n/281

Or Search for Louisiana Engineering Services with a web browser