

Energy - Docket Optical System

From: Ngo, Tuan@Energy
Sent: Tuesday, July 08, 2014 11:37 AM
To: Energy - Docket Optical System
Subject: FW: Waterless urinals

California Energy Commission

DOCKETED

14-AAER-01

TN 73312

JUL 08 2014

Hello Docket Staff,

Can you please docket this e-mail to 2014-AAER-01, and post it on the web in this link:

<http://www.energy.ca.gov/appliances/2014-AAER-01/prerulemaking/comments/index.html>

Thanks.

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From: Klaus [mailto:klaus@waterless.com]
Sent: Thursday, July 03, 2014 10:21 AM
To: Ngo, Tuan@Energy
Subject: RE: Waterless urinals

Dear Tuan,
thank you again for your call and interest.

Waterless No-Flush urinals have been around for the past 25 years and I am actually the inventor; the first 11 years we were the only ones in the market and could show that the product performs as advertised; that also opened the way for other manufacturers to come into the market, which was good for the technology and customers and prospects to see that there are multiple offerors. The reason our product was accepted was that they look like regular urinals, install like regular urinals and are very simple to maintain. In addition, the upkeep costs are still below flushed urinal operating costs. Typical ROI is less than 2 years.

As water and sewer rates have risen steadily in the past 2 decades and now more than ever the public awareness of our water issues has risen, non-water urinals are a natural for installation.

A typical problem on flushed urinals has always been the hard encrustations in drain lines over time due to the chemical reaction between water and urine- it builds lime stone, hard encrustations. Without water present non-water urinals do not have this problem or chemical reaction.

Waterless urinals also set the stage for flushed urinal manufacturers to reduce their flush volumes in those two decades, from initial 3+ gallons per flush to now 0.5 or even 0.125 gpf. However, while reducing flush volume per flush, the

amount of urine donated into the urinal remains the same, creating lime stone in drain lines faster than with larger flush volumes. We believe that a one gallon, at most a 0.5 gpf on a flushed urinal will make a flushed urinal still operational without too many problems. Going below 0/5 gpf brings a urinal to its physical and chemical limits. The other side is a waterless urinal, where there is no interaction of water and urine.

There are now more and more products being considered or made that work without water, besides waterless urinals: waterless toilets, waterless water softeners etc. However, EPA's WaterSense label refused to establish this category in their label as they "use no water at all and therefore a label is not needed". This however defeats the purpose of the WaterSense label, as customers, the federal agencies, green buildings, hotels etc are looking for a label and list to pick good products from. If the CEC can show yet again that they are forerunners and promoters of best practices, this can be a leg up on WaterSense as well as push WaterSense to add these products into their list.

The industry figures: there are approx. 150,000+ non-water urinals installed around the country in the past 20 years, in high traffic as well as low usage applications. Most are high traffic facilities. (see also this article)

Sports Club Achieves Sustainability Milestones

The Longfellow Clubs, a Boston-group of sports clubs, has released details of some of its sustainability measures, showing ...

InterContinental Hotels Target 12% Water Cut



InterContinental Hotels Group has set a goal to reduce water use in water-stressed areas by 12 percent globally ...

Please let me know if the above is what you have been looking for or if you need additional information, be glad to share what I know from 25 years in the industry.

Have a great 4th!

Regards

Klaus Reichardt

Founder and CEO

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From: Ngo, Tuan@Energy [<mailto:Tuan.Ngo@energy.ca.gov>]
Sent: Wednesday, July 02, 2014 10:42 AM
To: Klaus@waterless.com
Subject: Waterless urinals

Hi Klaus,

Please send me some information on your products, the installation locations in the US, and performance experiences of the product at those locations. I will add these information to our report. Many Thanks. !!!!

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