From: Daken.Abigail@epamail.epa.gov
To: Craig Haglund; Cronin, Daniel; Medepalli, Sarah; sworrell@drintl.com;
Subject: Fw: ENERGY STAR VERSION 2.0 Water Heaters
Date: Tuesday, June 28, 2011 12:26:50 PM
Attachments: EPA ENERGY STAR Report 07.pdf
2001 DOE Certificate of Recognition Award.pdf
WaterSense article Aug. 09 news letter.pdf
WaterSense-EPA article.pdf
IAPMO 2010 ETS Top 5.pdf

Abigail Daken
ENERGY STAR Program | U.S. Environmental Protection Agency

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----- Forwarded by Abigail Daken/DC/USEPA/US on 06/28/2011 12:24 PM -----

From: Larry Acker <LarryA@gothotwater.com>
To: Abigail Daken/DC/USEPA/US@EPA
Cc: Donna-Marie Acker <Donna-Marie@gothotwater.com>
Date: 06/24/2011 02:51 PM
Subject: ENERGY STAR VERSION 2.0 Water Heaters

Abigail,

We had the opportunity to meet at the ACEEE Water Forum in Berkeley a few weeks ago.

I have attended the Water Forum since the beginning and in fact submitted a paper at the National ACEEE Conference in Monterey in 1996. That paper was on "IDENTIFYING THE PARAMETERS FOR UNDERSTANDING THE COSTS AND BENEDFITS OF HOT WATER DEMAND PUMPING SYSTEM, A FLUE GAS BAFFLE AND A FLUE DAMPER". It was co-written by Gary Klein who at that time was with the California Energy Commission. This paper is available if you would wish to add to your collection of reasons for Energy Star Labeling. Interesting that the study results (assumptions at that time) have proven to be very close to fact in actual tests that occurred over the next 15 years.

This web site is one of the Energy Star web sites that talks about and credits Demand Control Pumping Systems. Don't know if you had a chance to review or not. http://www.energystar.gov/ia/partners/bldrs_lenders_raters/downloads/ES_2011_Mandatory_Requirements.pdf

It is important to know that residential pumping systems have been in the market for over 70 years and in the last 20 years Demand Control Systems have been installed in existing homes, new homes and multi-family homes. Demand Control Systems been studied and reviewed as a major part of the water and energy savings that occurs in a home for the last 13 years. The study of "Hot Water Distribution" and the pumping systems that operate the hot water distribution has been one of the most researched and tested of any fixtures in the home, including hot water heaters, shower heads and fixtures. Every test has concluded that "controlled pumping Systems" save both water and energy at a cost of less than $5.00 a year.

The studies have been conducted by Oak Ridge National Laboratory (funded by the DOE), The California Energy Commission, the AWWA as well as a number of utilities including Australia and Mexico with awards being given for savings of water and energy.

Controlled Pumping Systems are EPA HERS accepted credits, LEED Credits, NAHB Green Building Credits and recommended by the WaterSense group. But the most important approval is in the California Energy Commission Title 24 Code that allows Energy Credits for new residential construction in California. Demand Control Systems have received Energy Credits as early as 2006 with the CEC who recognized the energy efficiency at an early stage.

Another very important fact is that the three manufactories of controlled pumping systems are AMERICAN MADE Products.

I have attached a few of the important documents that need to be included in the report including the report released by the EPA in late 2006 that is an accumulation of many of the studies completed over the last 12 years.

I will also send you a CD that describes not only the residential savings and background on Demand Controlled Systems for residential but also commercial studies completed on Multi-family homes but Southern California Gas and San Diego Gas & Electric.

There are over 30 manufactories of residential and commercial pumping systems and three US companies that manufacture Demand Control Systems.

ACT Inc. D'MAND SYSTEMS www.gothotwater.com
UPONOR (Wrisbo) www.uponor.com
TACO Pumps Co. www.taco-hvac.com

Currently Demand Control Systems are being exported out of the US to seven other countries and have received awards from Australia and Mexico for their Water and Energy savings. I have attached the award from Mexico for your review in both Spanish and English.

Due to the size of some of the files I will send another e-mail and mail to you by postal mail the CD that shows other studies on both the residential and commercial buildings.

Thanks you for the consideration and I look forward to your comments.

Larry,

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