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November 17<sup>th</sup> 2014  
Docket E-00000XX-13-0214

**ORIGINAL**

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Dear Arizona Corporation Commissioners:

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The International Energy Conservation Code is the world's template for implementing more efficient energy practices and at the same time these practices also help to conserve water. Why in the world would Arizona consider anything that would move Arizona in the opposite direction?

**Water is our most important resource. Period**

Quoting from Robert Glennon's book "Unquenchable":

- Water is a critical input for the energy industry, not only for producing power but also for mining, refining, processing, and transporting oil, natural gas, coal, and other fuels.
- It takes 2 to 2.5 gallons of water to refine 1 gallon of petroleum.
- It takes 0.5 and 0.7 gallons of water to produce 1 kilowatt of electricity for a coal-fired plant.
- A typical 1,000 megawatt plant consumes 10,000 gallons of water a minute through evaporation.
- The average American annually uses about 12,000 kilowatts.
- According to Virginia Tech researchers, one 60 watt light bulb that burns for twelve hours per day consumes 3,000 to 6,300 gallons of water per year.
- Massive computer server farms not only require lots of energy but generate lots of heat. The computers need to be cooled and traditional air conditioning uses a lot of energy. As of 2009, Google, Microsoft and Yahoo used large quantities of water to cool the computers but would not disclose the specific quantity used. Increased technology will and does require more energy which requires more water.

Whether the ACC is considering changes in utility energy conservation mandates and/or eliminating some or all Arizona energy conservation codes, I recommend that when you pick up that glass of water during your meeting that you think about water and how all life requires it.

Energy conservation should not be Republican or Democrat; it should be common sense. Please use your common sense during your deliberations. And remember, your life depends on water.

Denise Morse

Dr. Home, LLC  
Sahuarita, Arizona

Arizona Corporation Commission

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