September 3, 2020

The Honorable Daniel R. Simmons  
Assistant Secretary  
Office of Energy Efficiency and Renewable Energy  
U.S. Department of Energy  
1000 Independence Avenue, S.W.  
Washington, DC 20585–0121

Appliance and Equipment Standards Program  
U.S. Department of Energy  
Building Technologies Office  
950 L’Enfant Plaza, SW., Suite 600  
Washington, DC, 20024.

RE: Comments on Docket ID No. EERE–2020–BT–TP–0002  
Energy Conservation Program: Test Procedure for Showerheads

Dear Assistant Secretary Simmons:

The Alliance for Water Efficiency (AWE) and the undersigned organizations write to express our firm opposition to the redefinition of a showerhead proposed by the US Department of Energy (DOE), which will allow multiple shower flows in a single stall. The current federal definition of a maximum flow of 2.5 gallons per minute (gpm) from a single shower has helped Americans save billions of dollars on their water and energy bills. DOE has not provided any technical analysis to document the cumulative water and energy impact that this proposed change would have, and which we believe would be financially harmful to the American public. We are specifically opposed to the redefinitions of “body spray” and “safety shower showerhead” that would remove both of these products from the legal definition of a showerhead. These proposed changes would be the most significant step backward on water and energy efficiency in 30 years.

The undersigned organizations believe this rulemaking is ill-advised for the following eight reasons:

1. **The current definition of showerhead does not need to be changed at this time.** DOE states that the current definition of showerhead is “ambiguous and does not mandate DOE’s prior interpretation” as justification for the redefinition. The proposed rulemaking states that greater alignment with the ASME showerhead definition is needed. Yet there does not seem to be any ambiguity perceived by the industry or by the stakeholders on this question.

2. **The proposed rulemaking would allow wasteful showers in a wide variety of configurations.** We believe that the proposed change in definition is being proposed for the sole purpose of legalizing multiple showerhead flows and legitimizing the profligate


use of water and energy, not to reduce any perceived ambiguity in the statute. The proposed rulemaking changes would clearly allow shower flows to increase from the current federally legal 2.5 gallons per minute (gpm) for the entire shower to 5.0 gpm or more, depending upon the number of shower heads. This could increase national water use by 161 billion gallons in just 1 year.¹

3. **Specifically exempting body sprays from the definition of a showerhead is illegal backsliding.** The DOE also proposes to define the term “body spray” to clarify that these products are not subject to the current energy conservation standards and thus can flow at any flow rate. We are concerned that the proposed rulemaking will result in wasteful and unnecessary “deluge” showers, which will also consume much more hot water. We also believe that this proposed rulemaking would be illegal and subject to anti-backsliding provisions under the federal statute².

4. **This illegal backsliding will only spur states to adopt their own showerhead standards and requirements.** The unnecessary redefinition will also create confusion and uncertainty in the market because at least eight states – which contain 40% of the nation’s population and housing -- already have laws in place that effectively restrict shower flows to lower than the 2.5 gpm federal standard. It was exactly this type of state-by-state patchwork regulation that lead to the passage of the Energy Policy Act in 1992 (EPAct 1992).

5. **The process for this rulemaking has not followed past DOE protocols, and does not qualify for a categorical exclusion under the National Environmental Policy Act of 1992 (NEPA).** DOE Notices of Proposed Rulemakings have always had at least 60 days for public review, even in cases where there was clear pre-release information. This proposed rulemaking is on a very fast track with far less than the usual 60 days’ notice and no pre-release communication. Given the magnitude of the potential impact, the proposed rulemaking should allow at least 90 days or more for public comment and review, and should also not qualify for a categorical exclusion under NEPA since there are clear water resource and energy impacts to the environment that have not yet been analyzed.

6. **The proposed rulemaking will increase consumption of drinking water that will have a severe impact on water supplies across the country.** 40 of the 50 states are already confronting serious water shortages, as documented in a US Government Accountability Office Report³. Increasing the consumption of treated drinking water through this proposed rulemaking will increase water utility costs for providing new supplies -- and

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² 42 U.S.C. 6295(o)(1) (commonly referred to as the “anti-backsliding provision”) prohibits DOE from prescribing a standard that increases the maximum allowable energy use of a covered product.
therefore increase customer bills, as those costs for procuring needed new supplies are then passed on to the consumers.

7. **Every 1 gpm of increased flow in a shower would cost Americans $1.14 Billion.** Even a small change in average shower flow rates would have a huge impact on national water and energy demands, and the proposed redefinition will clearly result in increased water and energy bills across the US. For each 1 gpm increase in shower flow rate, national annual domestic water use would increase by 55 billion gallons and national annual energy use for that added hot water would increase by 25,000 billion Btu\(^4\). This would, in turn, increase annual water and energy bills for American consumers by an estimated $1.14 billion\(^5\). While these are our best estimates, this is the kind of technical analysis that DOE needs to undertake itself as part of this rulemaking proceeding.

8. **The water supply and energy savings from the current regulation are critical for the nation.** To provide some perspective on the importance of the water and energy savings, AWE has analyzed the future impact that might result if showerhead flow rates were raised or lowered, using data describing the installed base of showerheads in 2011-2012 from the Residential End Uses of Water Study that documented actual flow rates in the field\(^6\). Based on projections for new development and for existing home showerhead replacements, AWE estimates that 2.5 gpm showerheads provide 11 billion gallons per year in water savings and 5 trillion Btu per year in energy savings. Ultra-efficient showerheads (<1.6 gpm) provide 19 billion gallons per year in water savings and 9 trillion Btu per year in energy savings. These are significant savings; in ten years the savings for 2.5 gpm showerheads at the federal standard alone accumulate to the equivalent of supplying 1 million homes with water and 670,000 homes with energy.

The country needs more water and energy efficiency -- not less -- and thus the undersigned organizations firmly recommend that these proposed rulemaking changes be rejected.

Sincerely,

Alliance for Water Efficiency  
Chicago, IL

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\(^4\) Mitchell, IBID  
\(^5\) Mayer, Peter. Memo to AWE on the Costs of 1 gpm Increase in Shower Flow. Available from AWE  