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BEFORE THE

CALIFORNIA ENERGY COMMISSION

In the Matter of:)	Docket	No.	15-AAER-05
)			
Appliance Efficiency Rulemaking)			
for Residential Lavatory)			
Faucets and Showerheads)			

LEAD COMMISSIONER PUBLIC WORKSHOP

CALIFORNIA ENERGY COMMISSION
1516 NINTH STREET
1ST FLOOR, ART ROSENFELD HEARING ROOM
SACRAMENTO, CALIFORNIA

TUESDAY, July 28, 2015 1:00 P.M.

Reported by: Peter Petty

APPEARANCES

Commissioners Present

Andrew McAllister, Lead Commissioner, IEPR Committee Robert B. Weisenmiller, Chair

Staff Present

Kristen Driskell, Appliance Efficiency Program Sean Steffensen

Speakers

Ed Elliott, Pacific Gas & Electric Company (PG&E)
Sarah Schneider, Energy Solutions
Jerry Desmond, Plumbers Manufacturers International
Jay Burnett, Delta Faucet Co.
Joel Smith, Kohler
Tracy Quinn, Natural Resources Defense Council (NRDC)
Pamela Boyd Williams, California Retailers Association
Marc Kimball, Home Depot
John Bertrand, Moen

Public Comment (Via WebEx or Phone)

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- 1 PROCEEDINGS
- 2 JULY 28, 2015 1:00 p.m.
- 3 MS. DRISKELL: Good afternoon everyone.
- 4 My name is Kristen Driskell, I'm the Supervisor
- 5 of the Appliance Efficiency Program at the Energy
- 6 Commission.
- Just a few housekeeping items before we
- 8 begin. For those of you not familiar with this
- 9 building, the closest restrooms are located over
- 10 there, inside the building, but outside of this
- 11 conference room. There is a snack bar on the
- 12 second floor under the white awning. And in the
- 13 event of an emergency if the building is
- 14 evacuated, please follow our employees to the
- 15 nearest exits, they're here and over there.
- 16 This meeting is being recorded, so please
- 17 give your name or a business card to our Court
- 18 Reporter sitting over there before you speak. I
- 19 will invite everyone up to speak, and then have
- 20 your presentation loaded.
- 21 Commissioners, if you would like to make

- 1 some opening remarks?
- 2 COMMISSIONER MCALLISTER: You bet.
- 3 Thanks, Kristen. Let's see, thank you all for
- 4 coming. We planned this workshop a couple weeks
- 5 ago, a few weeks ago, and really happy to have it
- 6 now coming to fruition.
- 7 You know, just a little bit of context
- 8 quickly. The urgency of the drought has not let
- 9 up, if anything it continues unabated and more
- 10 so. I was just down in San Diego and they
- 11 actually had the tail of a hurricane down there a
- 12 couple weeks ago and got a lot of rain, but no
- 13 fundamental change in where we're going, it's all
- 14 very, I think, unpredictable and moment to
- 15 moment, but we really know that the long term
- 16 situation has not changed.
- 17 The Governor continues to focus on this
- 18 issue, it's at the top of his priority list, and
- 19 the agencies that he's tasked with doing things
- 20 are clicking through their responsibilities and
- 21 making sure that we're aligned and moving forward
- 22 on getting all the water savings we possibly can.
- 23 You know, we have an existing Regulation,
- 24 so everybody, I think, is clear on that, we did
- 25 that at the Governor's behest expeditiously, I'll

- 1 say, and it's in place and January 1 is the date
- 2 we'll be talking, I think, about that centrally
- 3 today.
- 4 But the reason I think we wanted to have
- 5 a workshop, I certainly wanted to have a
- 6 workshop, is to express the fact that we really
- 7 are listening to all the stakeholders, certainly
- 8 industry and, you know, the Energy Commission
- 9 needs to push the envelope on savings on energy
- 10 and water, but also do so in a way that is indeed
- 11 workable in the marketplace, and so we need to
- 12 create the forums to work through those issues on
- 13 a sound basis. And if changes are needed in
- 14 direction, then we have the ability and authority
- 15 to do that.
- So we've gotten a lot of stakeholders
- 17 chiming in on this issue after adoption of the
- 18 Regulation, and I think it became clear we needed
- 19 to air out some of these issues in a public
- 20 forum, build a record, and move forward and
- 21 utilize our process as appropriate, so happy to
- 22 be doing that today. I really thank you all for
- 23 coming and I'll pass the Dais to Chair
- 24 Weisenmiller.
- 25 CHAIRMAN WEISENMILLER: I'll be brief and

- 1 just follow-up. I think, as Commissioner
- 2 McAllister said, I think in the case of the
- 3 drought, we are all hoping for the best, but
- 4 planning for the worst case, and the worst case
- 5 would be a continuation at least through next
- 6 year, if not the Australian example, 12 years.
- 7 Certainly when you look at the impact of the
- 8 drought on our citizens, it's pretty severe, you
- 9 know, we fallowed a lot of fields, have had major
- 10 impacts on California Agriculture, you know,
- 11 which has really resulted in people losing a
- 12 livelihood and us having to bus food and water
- 13 into some of the towns in the valley.
- 14 At the same time, certainly if you look
- 15 at the impact on wildlife, it's been also fairly
- 16 severe. We are likely to lose the salmon runs
- 17 this year, I always go back to the statistic of
- 18 the number of bears moved out of Bakersfield in
- 19 December as basically animals are looking for
- 20 food and water.
- 21 So the bottom line is it's a pretty
- 22 serious situation. We took emergency action; at
- 23 the same time, whenever we adopt Standards, we
- 24 always, well, we always hear a lot of problems
- 25 from industry and we always do the reality check

- 1 as we go forward. We're obviously hoping things
- 2 will get better, but we want to get some data
- 3 today on what is the situation in the area of the
- 4 faucets, and I guess there's a creative situation
- 5 on the plate trim of the showerheads. So again,
- 6 looking forward to comments today.
- 7 MS. DRISKELL: Great, thank you. So we
- 8 have several presentations. We'll start off with
- 9 staff's presentation. I'll invite Sean
- 10 Steffensen up here for that. After each
- 11 presentation we'll have an opportunity to ask
- 12 just clarifying questions and we'll have a
- 13 discussion later in the afternoon to address more
- 14 substantive issues. So if you have a very
- 15 substantive question, hang on to it.
- MR. STEFFENSEN: Hi. Good afternoon. My
- 17 name is Sean Steffensen, I'm a Mechanical
- 18 Engineer here at the Efficiency Division. I work
- 19 on a number of water-related initiatives and I'm
- 20 somewhat new here.
- 21 So we're facing a drought and water
- 22 emergency as shown in the picture above. That's
- 23 Folsom Lake, 2013 and 2014. The lake levels are
- 24 less than half of average, snow and rainfall
- 25 runoff is predicted to be at its lowest level in

- 1 a generation, that's the graph on the right with
- 2 the big arrow pointed at 2015, that's what the
- 3 USGS is predicting.
- 4 And we're also asking everyone, as the
- 5 Commissioner said, that we must conserve water,
- 6 we must do that now.
- 7 Governor Brown has recognized the urgency
- 8 of the drought and has granted the Energy
- 9 Commission emergency powers to adopt regulations
- 10 to improve the efficiency of water appliances.
- 11 The Energy Commission acted through the recent
- 12 Toilet, Urinals, and Lavatory Faucet Standard
- 13 that we'll begin saving water in January of 2016.
- 14 Today we are here to discuss what we can do to
- 15 further water savings through lavatory faucet and
- 16 showerhead efficiency standards.
- 17 So this is a graphic I borrowed from one
- 18 of the reports. This graphic shows a breakdown
- 19 of how urban water use is in California. Each
- 20 sector, whether it's commercial, which is the
- 21 orange part, industrial, or residential
- 22 outdoor/indoor has great potential for water
- 23 savings. Today we're going to focus on the
- 24 residential indoor water use and that will be
- 25 specifically faucets and showers.

1	On	April	8th,	the	Appliance	Standard

- 2 Rulemaking realized significant water savings as
- 3 shown on these graphics here. The rulemaking
- 4 covered both residential and commercial toilets,
- 5 urinals, and kitchen and lavatory faucets. When
- 6 all the appliances meet the new standards, 105
- 7 billion gallons of water will be saved annually,
- 8 that's one out of every four gallons that
- 9 toilets, urinals and faucets use today.
- 10 Plumbing Manufacturers International,
- 11 they'll be speaking today, it's a trade
- 12 organization of plumbing products and
- 13 manufacturers, has expressed concerns regarding
- 14 the availability of residential lavatory faucets
- 15 at the 1.2 gallons per minute level, as of
- 16 January 1, 2016.
- 17 Specifically, PMI has claimed that few
- 18 models currently exist that meet the standard and
- 19 provide a timeline for when they believe they
- 20 could make their noncompliant models into 1.2
- 21 gallon per minute models. This timeline showed
- 22 the design, certification and manufacturing
- 23 processes extending to January 1, 2017.
- 24 Energy Commission staff has reviewed the
- 25 product availability and met with Manufacturers,

- 1 Certifiers and Retailers to verify PMI's claims.
- 2 The results are shown here on this slide. While
- 3 we have found several of PMI's claims reasonable
- 4 such as the lack of available product today and
- 5 long design and production timelines, we also saw
- 6 opportunities to streamline certification process
- 7 or utilize existing 1.0 GPM to modify some faucet
- 8 models to ensure availability.
- 9 The Energy Commission would like to
- 10 review the faucet topic today to determine how
- 11 best to further water savings while ensuring
- 12 faucet availability.
- So I have a graphic here that shows some
- 14 of the ways in which we may amend the Lavatory
- 15 Faucet Standard. The goals, of course, are water
- 16 savings, faucet availability, ease of
- 17 implementation and enforcement, and drought
- 18 savings, meaning we want to get the water savings
- 19 as quickly as we can because the drought is
- 20 happening today.
- 21 We looked at three areas that
- 22 individually or together present opportunities to
- 23 meet these goals and that would be the faucet
- 24 flow rate, the effective date for the Regulation,
- 25 and whether sell-through would be permitted.

1	So	this	shows	the	staff	pro	posal.	Staff
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- 2 proposes extending the effective date for the 1.2
- 3 gallon per minute faucets to July 1, 2016, while
- 4 adding a September 1, 2015 effective date for 1.5
- 5 gallon per minute faucets. Both effective dates
- 6 would offer sell-through, or the ability of
- 7 retailers and manufacturers to sell-through
- 8 inventory manufactured before the effective date.
- 9 We believe this proposal meets the goals for
- 10 water savings while ensuring faucet availability.
- 11 And then changing topics, we also are
- 12 looking at showerheads as an opportunity to
- 13 extend significant water savings. The table
- 14 presents a comparison of existing Showerhead
- 15 Standards. In Title 20, the existing Appliance
- 16 Standard is set at 2.5 gallons per minute.
- 17 CALGreen, the Title 24 New Construction Code, the
- 18 California Plumbing Code, and WaterSense, which
- 19 is a voluntary industry standard, are set at two
- 20 gallons per minute. Setting the Title 20
- 21 showerhead standard to two gallons per minute
- 22 would align standards while achieving water
- 23 savings.
- 24 The proposal would set both efficiency
- 25 and performance standards. The maximum flow rate

- 1 would be two gallons per minute at 80 PSI, which
- 2 is typically the highest water pressure in a
- 3 home. Reducing the maximum flow rate would
- 4 achieve the water savings. There are two minimum
- 5 flow rate requirements proposed to address
- 6 consumer acceptance and thermal shock, a safety
- 7 concern when a change in water pressure may cause
- 8 a change in shower temperature. These minimum
- 9 flow rates would avoid this issue by allowing
- 10 consumers to match showerheads and automatic
- 11 compensating shower mixing valves. The effective
- 12 date is January 1, 2016 with sell-through of
- 13 inventory manufactured before that date.
- 14 This graphic here shows what we would
- 15 cover, it's shown as the thick showerhead shown
- 16 from above, the hand-held showerhead, and also
- 17 body sprayers which are devices used to spray
- 18 water horizontally in some showers.
- 19 This slide shows which test procedures
- 20 would be utilized. The next flow rate is a
- 21 Federal test method that is currently in effect
- 22 and would be unaffected. The minimum flow rate
- 23 procedure would be per the ASME Plumbing Supply
- 24 Fittings Standard, the 2012 edition, specifically
- 25 section 5.12 for the high efficiency showerheads

- 1 and handheld showers.
- 2 The benefits of the showerhead efficiency
- 3 include 24 billion gallons of water annually at
- 4 full stock turnover. Consumers will save energy,
- 5 water and money with the change-out of a two
- 6 gallon per minute showerhead. There will be
- 7 alignment to the existing standards and studies
- $8\,$ show consumer acceptance and the minimum flow
- 9 rate would address thermal shock concerns.
- 10 The Energy Commission encourages public
- 11 comment on these topics. There will be a public
- 12 comment period at the end of today's workshop.
- 13 We also accept written comments. Please provide
- 14 your comments by this Friday, July 31st.
- 15 Instructions are shown on this slide, Slide 14.
- 16 The e-Commenting link is an easy way to make a
- 17 comment. We will also accept hard copy comments
- 18 at the address shown on this slide. Please note
- 19 the docket number, we have updated it, it's now
- $20 \quad 15-AAER-05.$
- 21 And thank you again. I would be happy to
- 22 answer any clarifying questions regarding the
- 23 proposal at this time, although we have allocated
- 24 time for a more in-depth discussion at the end.
- 25 So at this point I've completed my presentations,

- 1 Commissioners.
- 2 COMMISSIONER MCALLISTER: I think that
- 3 was very clear, pretty simple proposal, and let's
- 4 move through the agenda I think expeditiously.
- 5 MR. STEFFENSEN: Okay, thank you.
- 6 COMMISSIONER MCALLISTER: Thanks a lot,
- 7 Sean.
- 8 MS. DRISKELL: Thank you, Sean. Next up
- 9 I would like to invite Sarah Schneider from
- 10 Energy Solutions on behalf of the California IOUs
- 11 to present.
- MR. ELLIOTT: Good afternoon, Chairman
- 13 Weisenmiller, Commissioner McAllister, and
- 14 Kristen Driskell and members of the staff. My
- 15 name is Ed Elliott. I'm a Senior Engineer with
- 16 the Codes and Standards Department of PG&E, and
- 17 speaking on behalf of the California Investor-
- 18 Owned Utilities, we would like to thank you for
- 19 this opportunity to present these case studies on
- 20 showerheads and faucets. At this point, I would
- 21 like to introduce Sarah Schneider of Energy
- 22 Solutions.
- 23 COMMISSIONER MCALLISTER: Thanks for
- 24 being here.
- MS. SCHNEIDER: Thank you. I echo

- 1 everything that Ed Elliot just said. My name is
- 2 Sarah Schneider, I'm with Energy Solutions and
- 3 I'm going to be presenting on behalf of the
- 4 Statewide Utility Codes and Standards Team, which
- 5 is comprised of the four California Investor-
- 6 Owned Utilities. We will be presenting our
- 7 proposal for showerheads, as well as our
- 8 recommendations for the recently adopted Lavatory
- 9 Faucet Standards.
- MS. DRISKELL: Just let me know when you
- 11 want the slide, or you can come over here and do
- 12 it yourself, your choice.
- MS. SCHNEIDER: I'm okay right here, I'll
- 14 just point to you, Kristen, thank you.
- So next slide, please. Thank you. So
- 16 before I dive into our proposal on Showerheads, I
- 17 wanted to provide a little background on the role
- 18 of the Statewide Codes and Standards Team in
- 19 advocating for Water Efficiency Standards and why
- 20 we're in support of updating the Title 20
- 21 Showerhead Standards.
- 22 So as you know, water resources
- 23 management in California uses a lot of
- 24 electricity. Electricity is used for pumping,
- 25 conveying, and treating both drinking water and

- 1 wastewater. Energy is also used for heating
- 2 water at the end use.
- 3 So in response to this energy/water
- 4 nexus, as well as the shrinking water supplies,
- 5 the IOUs were directed by the California Public
- 6 Utilities Commission to pursue water efficiency
- 7 activities as part of their energy management
- 8 portfolios. As such, the Statewide Codes and
- 9 Standards Team has been active in advocating for
- 10 Water Efficiency Standards for Appliance and
- 11 Building Standards over the past few years.
- 12 So the Title 20 Showerhead Standard was
- 13 first established in California in 1978 and the
- 14 maximum flow rate at that time was set at 2.75
- 15 gallons per minute. The Standard was last
- 16 updated just slightly to 2.5 gallons per minute
- 17 in 1992, and has remained at that level since
- 18 that time largely because the state was preempted
- 19 by the Federal Government from establishing its
- 20 own or more stringent standards.
- 21 So in December of 2010, the U.S.
- 22 Department of Energy waived preemption for
- 23 plumbing products, allowing California and other
- 24 states to pursue more stringent standards. So
- 25 though California is just now pursuing updates to

- 1 the Showerhead Standards, the City of Los Angeles
- 2 has had a mandatory requirement for showerheads
- 3 since 2009. That standard had established a
- 4 maximum flow rate of two gallons per minute at 80
- 5 psi, which is very similar to water sense. In
- 6 addition, New York City also has had a similar
- 7 standard of a maximum two gallons per minute that
- 8 has been in effect for showerheads since 2012.
- 9 By amending the Title 20 Standards for
- 10 showerheads, California has an opportunity to
- 11 save a significant amount of water and energy
- 12 while reducing utility bills for citizens. Next
- 13 slide.
- 14 So as you know, the state has been in an
- 15 ongoing drought for going on four years. Every
- 16 region, including those that have historically
- 17 experienced an abundant supply of rainfall is
- 18 currently experiencing extreme drought. The
- 19 situation is so severe that the Governor has
- 20 mandated a statewide reduction in water use by 25
- 21 percent, and this is unprecedented.
- 22 Aside from the emergency drought and
- 23 shrinking water supplies, it is inherently
- 24 valuable to move toward adoption of more water
- 25 efficient Codes and Standards. And the Energy

- 1 Commission has an opportunity to adopt feasible
- 2 standards that will result in significant
- 3 reductions in water and energy use.
- 4 On average, California consumes about
- 5 three trillion gallon of water per year for urban
- 6 uses alone, this is both indoor and outdoor water
- 7 uses. This is the equivalent to about 2.6
- 8 terawatt hours of embedded electricity. Showers
- 9 are one of the largest residential indoor water
- 10 uses, comprising about 20 percent of indoor water
- 11 use. Moreover, 73 percent of shower water is hot
- 12 water and water heating accounts for one of the
- 13 largest uses of natural gas in California homes.
- 14 So the Statewide Codes and Standards Team
- 15 is proposing the adoption of a two-tiered
- 16 standard for showerheads. Tier 1, which would go
- 17 into effect January 2016 would establish a
- 18 maximum flow rate of two gallons per minute at 80
- 19 PSI, along with establishing minimum flow rates
- 20 at both 45 and 20 PSI to ensure that performance
- 21 meets consumer satisfaction, even if the water
- 22 pressure is low in a home.
- In addition, we're also proposing
- 24 performance standards for spray coverage and
- 25 spray force. This proposed Tier 1 -- my

- 1 apologies, I'm not used to talking into a
- 2 microphone, sorry for those of you on the phone,
- 3 as well -- the proposed Tier 1 standard that we
- 4 are proposing aligns with WaterSense and is very
- 5 similar to what's been required in New York City
- 6 and in L.A. Tier 2, which would go into effect
- 7 two years after Tier 1, would establish a maximum
- 8 flow rate of 1.8 gallons per minute with no
- 9 changes to the requirements for minimum flow
- 10 rates and performance.
- 11 Additionally, we're also proposing
- 12 requirements for reporting of the minimum flow
- 13 rates, as well as a labeling requirement to
- 14 display the shower mixing valve flow rate to
- 15 improve compatibility with showerheads.
- 16 Additionally, we're also proposing a packaging
- 17 labeling requirement that would prevent
- 18 instructions from being printed on packages or
- 19 labels that show the user how to alter the
- 20 maximum flow rate of the showerhead.
- 21 So the proposed 2.0 gallon per minute
- 22 maximum flow rate, or Tier 1, harmonizes with
- 23 existing State laws and regulations that Sean had
- 24 pointed out in his presentation. For example,
- 25 both the California Plumbing Code and CALGreen

- 1 require a maximum flow rate of two gallons per
- 2 minute for new construction.
- In addition, California Senate Bill 407,
- 4 which was passed in 2009, requires that all
- 5 plumbing fixtures installed in residential and
- 6 commercial buildings that are built before 1994
- 7 be replaced with water conserving fixtures by
- 8 2017 and 2019, respectively. The current
- 9 standard of 2.5 gallons per minute for
- 10 showerheads is no longer as water conserving as
- 11 many other products that are available on the
- 12 market today.
- 13 Additionally, there is widespread
- 14 industry support for WaterSense products as seen
- 15 it this April 10th article headline stating that
- 16 PMI urges immediate use of EPA WaterSense
- 17 products in California. And to reiterate, the
- 18 proposed Tier 1 Standard is aligning with the
- 19 WaterSense voluntary specification of a maximum
- 20 flow rate at 2.0 gallons a minute at 80 PSI,
- 21 along with performance requirements for spray
- 22 coverage and spray force and minimum flow rate
- 23 requirements.
- 24 WaterSense is vetted by industry players
- 25 and the program has helped drive the market

- 1 toward efficiency, as evidenced by the widespread
- 2 availability of showerheads that are rated two
- 3 gallons per minute or less.
- 4 The Statewide Codes and Standards Team
- 5 analyzed the United States Department of Energy's
- 6 Compliance Database and found that about 45
- 7 percent of the showerheads meet the proposed Tier
- 8 1 level of two gallons per minute. This is over
- 9 2,100 unique models, or almost half of the
- 10 showerheads in the DOE's database. As such,
- 11 there is widespread availability of qualifying
- 12 products on the market today.
- 13 The Statewide Codes and Standards Team
- 14 also estimated the annual savings per showerhead,
- 15 so based on our analysis, the proposed Tier 1
- 16 level would result in a savings of approximately
- 17 2,175 gallons of water per year, per showerhead.
- 18 The annual per unit energy savings from the
- 19 reduced water heating load would be either 13
- 20 therms of natural gas, or 250 kilowatt hours per
- 21 year, depending on if the home is using natural
- 22 gas or electricity to heat the water.
- 23 Additionally, there is an annual embedded
- 24 electricity savings of approximately 11 kilowatt
- 25 hours per showerhead and a reduction of peak

- 1 demand of 33 watts. The Tier 2 standard of 1.8
- 2 GPM would result in an additional annual savings
- 3 of approximately 900 gallons of water per
- 4 showerhead, per year. In total, moving from the
- 5 current standard of 2.5 gallons per minute to the
- 6 proposed Tier 1 standard of 1.8 gallons per
- 7 minute would result in a savings of over 3,000
- 8 gallons of water per year, per showerhead.
- 9 I do want to note that the analysis that
- 10 we did didn't include commercial buildings or, to
- 11 be clear, showerheads installed in commercial
- 12 buildings. So the estimates that are presented
- 13 here are conservative.
- 14 The estimated annual statewide savings
- 15 for moving from the current standard of 2.5 to
- 16 the proposed Tier 2 standard of 1.8 gallons per
- 17 minute, after full product replacement, is nearly
- 18 38,000 gallons of water saved or the equivalent
- 19 of water use in over 277,000 California homes.
- 20 Additionally, there are annual savings of
- 21 about 200 million therms and 450 gigawatt hours
- 22 from reduced water heating load. Additionally,
- 23 there is an annual savings of 182 gigawatt hours
- 24 of embedded electricity, and an annual peak
- 25 demand reduction of 61 megawatts.

1 Th	e Statewide	Codes and	Standards	Team
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- 2 also calculated the avoided greenhouse gas
- 3 emissions from the adoption of the proposed
- 4 standards.
- 5 So shifting from the current standard of
- 6 2.5 gallons per minute to the proposed Tier 2 1.8
- 7 gallons per minute will result in an estimated
- 8 reduction of approximately 1.5 million metric
- 9 tons of carbon dioxide equivalence after full
- 10 product replacement.
- 11 So based on our analysis of cost to
- 12 benefits per showerhead, we found that there are
- 13 no additional costs to the manufacturer or the
- 14 consumer for a 1.8 GPM or 2.0 GPM showerhead as
- 15 compared to a 2.5 GPM showerhead. There are cost
- 16 savings, however. The total cost reduction per
- 17 showerhead for a building using electric water
- 18 heating is about \$879.00, and roughly \$458.00 for
- 19 a building using natural gas to heat water.
- 20 Statewide, the total lifecycle benefits
- 21 of the combined Tier 1 and Tier 2 Standards is
- 22 approximately \$585 million from first year
- 23 shipments and nearly \$6.8 billion after full
- 24 product replacement. I do also want to point out
- 25 that the benefit cost ratio is not applicable for

- 1 showerheads because there is no incremental cost.
- 2 So in conclusion, we recommend that the
- 3 Energy Commission adopt a two-tier standard for
- 4 showerheads. To reiterate, Tier 1, which would
- 5 be in effect January of 2016 would establish a
- 6 maximum flow rate of two gallons per minute at 80
- 7 PSI, along with requirements for minimum flow
- 8 rates, and requirements for performance,
- 9 reporting and labeling.
- Tier 2, which would go into effect two
- 11 years later would establish a maximum flow rate
- 12 of 1.8 gallons per minute with no change to the
- 13 requirements for minimum flow rates reporting,
- 14 performance, or labeling.
- The proposed Standards are feasible and
- 16 cost-effective. As a significant number of
- 17 brands and models are available on the market
- 18 today to meet both the Tier 1 and Tier 2
- 19 Standards, utility incentive programs have been
- 20 promoting water showerheads for several years
- 21 now. To reiterate, the WaterSense specification
- 22 is a maximum flow rate of two gallons per minute,
- 23 80 PSI. This has helped drive the market towards
- 24 higher efficiency products.
- 25 Right now, the Energy Commission has an

- 1 important task and an incredible opportunity to
- 2 adopt meaningful and cost-effective standards
- 3 that will save California a significant amount of
- 4 water and energy.
- 5 So I would like to conclude this
- 6 presentation by presenting the Statewide Codes
- 7 and Standards Team's recommendations on the
- 8 recently adopted Lavatory Faucet Standards. Next
- 9 slide, please.
- 10 In summary, the Statewide CASE Team
- 11 supports PMI's proposal for the Energy Commission
- 12 to adopt a 1.5 gallon per minute standard
- 13 effective immediately. However, we support that
- 14 the Energy Commission maintain the January 1,
- 15 2016 effective date for the 1.2 gallon per minute
- 16 faucets and aerators.
- Our rationale is that there are available
- 18 products on the market today that currently meet
- 19 the 1.2 gallon per minute flow rate; for example,
- 20 according to DOE's Product Certification
- 21 Database, there are six manufacturers that
- 22 produce 92 unique models of faucet aerators that
- 23 are rated at 1.2 gallons per minute or less.
- 24 Further, the full faucet redesign is not
- 25 necessary to meet the 1.2 standard as aerator

- 1 sizing and threading have generally been
- 2 standardized. Further, the major aerator
- 3 manufacturer, which is NEOPERL, is prepared for
- 4 increasing shipments of the 1.2 gallon per minute
- 5 to meet the January 1st, 2016 effective date.
- 6 Additionally, the product certification
- 7 process, we've learned, can be completed fairly
- 8 quickly, either in 90 days, or at an expedited
- 9 rate of 30 days. Next slide, please. Thank you.
- 10 So the Statewide Codes and Standards Team
- 11 developed this alternative product development
- 12 schedule based on conversations we held with
- 13 third party certification bodies. The activities
- 14 highlighted in grey indicate the estimated time
- 15 required to design, test, manufacture, assemble,
- 16 and ship faucet assemblies. If manufacturers use
- 17 the expedited third party testing and
- 18 certification schedule, which is 30 days versus
- 19 90 days, and if the Energy Commission is able to
- 20 expedite the review and registration of
- 21 qualifying products for sale here in California,
- 22 then manufacturers should have about seven and a
- 23 half months to design, test, manufacture, and
- 24 ship products in order to meet the January
- 25 deadline.

- I do also want to point out that we will
- 2 be docketing our proposal for the Showerheads
- 3 Proposed Standards this week, so you can find
- 4 more detailed information about our analyses and
- 5 our assumptions through that case report. And
- 6 thank you.
- 7 COMMISSIONER MCALLISTER: Thanks very
- 8 much. The documentation of those assumptions
- 9 will be really important to have because I think
- 10 a bunch of the discussion here is about what's
- 11 actually doable in the marketplace and, you know,
- 12 certainly about this single aerator manufacturer
- 13 that seems to be kind of one of the issues, so
- 14 any documentation about the reasonableness of
- 15 your assumptions would be really helpful.
- 16 MS. SCHNEIDER: Yes, definitely. Thank
- 17 you.
- 18 CHAIRMAN WEISENMILLER: Yeah, docketing
- 19 soon would be good since we're asking parties to
- 20 respond, you know, comment in an expeditious
- 21 fashion, such to the extent that other parties
- 22 will want to respond to your report. It's really
- 23 important to get it in fast.
- MS. DRISKELL: Okay, great. Thank you,
- 25 Sarah. Next, we'll have a presentation from

- 1 Plumbing Manufacturers International.
- 2 MR. DESMOND: Good afternoon,
- 3 Commissioners. Jerry Desmond on behalf of the
- 4 Plumbing Manufacturers International. Is it okay
- 5 if we have like a three-party presentation?
- 6 Could we just grab a seat here? Is that out of
- 7 order?
- 8 COMMISSIONER MCALLISTER: Sure, go for
- 9 it.
- MR. DESMOND: Okay, well thank you.
- 11 Thanks for the help with the slides. Plumbing
- 12 Manufacturers International (PMI), as Sean
- 13 mentioned, is the International trade association
- 14 of the Manufacturers of approximately 90 percent
- 15 of the plumbing products manufactured in the
- 16 United States and sold in California, as well.
- 17 And for the past two years, PMI has been an
- 18 active participant in the Appliance efficiency
- 19 Regulations and Title 20 as they were under
- 20 development by the Energy Commission. We
- 21 participated in the April 8th Business Meeting
- 22 where the Emergency Regulations were adopted and
- 23 we've been engaged throughout.
- To preface our comments, we'd say that we
- 25 certainly acknowledge the Executive Order on the

- 1 drought on April 1 and the direction in that
- 2 Executive Order. You know, the situation, the
- 3 dire situation we find ourselves in today, in the
- 4 recent past, and possibly in the future in terms
- 5 of the drought and the imperative to drive
- 6 towards water efficiencies and water savings and
- 7 we're engaged and committed to try to do what we
- 8 can as an industry.
- 9 Here today with me, I have four
- 10 representatives of PMI member companies. With me
- 11 at the table here, I have Joel Smith with Kohler
- 12 and Jay Burnett with Delta, and we also have John
- 13 Bertrand with Moen, and Mike Hannigan with
- 14 American Standard, who are all here today to
- 15 participate. Again, showing our commitment as
- 16 PMI to the process and also the look that you're
- 17 giving today in your workshop. And perhaps with
- 18 that, I'll hand off to Joel to take it -- Jay is
- 19 next, okay. Jay, perhaps the slide after next.
- 20 MR. BURNETT: Thank you, Jerry. Good
- 21 afternoon, gentlemen. I am Jay Burnett with
- 22 Delta Faucet Company. I have worked for them for
- 23 31 years; as I tell everyone, my entire
- 24 professional career has been with Delta and I'm
- 25 grateful for that.

- 1 First of all, I wanted to review the
- 2 proposal that PMI had proposed, first of all on
- 3 Lavatory faucets was to implement the 1.5 gallons
- 4 per minute immediately because, two-fold, first
- 5 of all the products are readily available, but
- 6 also the considerable water savings that can be
- 7 had immediately and I think has been justified by
- 8 a number of other constituents.
- 9 In terms of the 1.2 gallons per minute,
- 10 we had proposed the January 2017 and it's really
- 11 driven by a couple of factors, first of all there
- 12 are some technical challenges, I will admit they
- 13 are not highly technical, but there are some.
- 14 Sarah had mentioned that it's a matter of
- 15 changing an aerator, which in many cases is the
- 16 case, but there are other faucets that it's a
- 17 little bit more complex, that you're into the
- 18 geometry of the faucet, changing a flow control
- 19 rather than an outlet device. So that drives
- 20 some of the technical challenge in changing over
- 21 to achieve the additional 1.2 gallons per minute
- 22 flow rate.
- 23 As for showerheads, we propose the July
- 24 1, 2016 and my colleague will allude to some of
- 25 the technical challenges in a little bit as to

- 1 what's involved on showerheads, and I have a
- 2 supporting timeline to present to you for that,
- 3 as well.
- 4 Just for the record, we wanted to
- 5 document that we concurred with the new
- 6 requirements for the kitchen faucets, the
- 7 toilets, and the urinal flush valves.
- 8 And one ending note in the proposal, I
- 9 just wanted to mention that the offer for sale
- 10 language is really a driver in some of the
- 11 complexity with managing the field inventory.
- 12 And I would just ask that you think beyond the
- 13 immediate retail channel. We also have a trade
- 14 wholesale channel in our business. And
- 15 oftentimes the complexity to reach out to
- 16 wholesalers and their second tier plumbers, and
- 17 specifiers, and showrooms, just requires a little
- 18 bit more effort in terms of collecting product
- 19 and getting the communication and message of any
- 20 substantial change like this is. Next slide,
- 21 please.
- 22 I think Sean had referenced this in his
- 23 presentation, the timeline, which I think many of
- 24 you have seen before, especially the top half,
- 25 which is in support of our proposal for the

- 1 lavatory faucets. The bottom half is the same
- 2 construction for the showerheads, and you will
- 3 see the proposed dates of January of 2017 for the
- 4 lavatory faucets, and July of 2016 for the
- 5 showerheads. And a major constituent of that
- 6 timeline is that which I mentioned previously
- 7 about the management of field inventory.
- 8 I will now pass it over to my colleague,
- 9 Joel Smith.
- 10 MR. SMITH: All right, if you can go to
- 11 the next slide, please. As mentioned, I'm Joel
- 12 Smith with Kohler Company. Thanks for having us
- 13 here. In this slide, we just wanted to compare
- 14 what the CEC staff had recommended just a few
- 15 days ago and where we were at and talk a little
- 16 bit about how those line up. So first off, on
- 17 the residential lavatory faucets, the
- 18 recommendation was September 1st to go to 1.5 GPM
- 19 for lavatory faucets. As you know, we are on
- 20 board with that and have been since the
- 21 beginning, so we think that's a good move and a
- 22 way to quickly start saving water.
- 23 The second item was to extend the
- 24 effective date for the 1.2 GPM flow rate faucets
- 25 to July 1, 2016. And coupled with that was a

- 1 change in the language to allow the sale of the
- 2 product manufactured prior to that July 1, 2016
- 3 date. So as we reviewed that and Jay talked you
- 4 through the timeline a bit, it's difficult for
- 5 us, there are going to undoubtedly be some stock-
- 6 out issues or places where there is not stock
- 7 available for sale; however, we do feel like this
- 8 is a workable solution. We will have some
- 9 disruption, no doubt, but it will be limited and
- 10 we feel like this is a workable solution that can
- 11 meet the needs of California and help us get
- 12 through this drought quickly and it's something
- 13 the manufacturers can work with.
- 14 COMMISSIONER MCALLISTER: So a quick
- 15 question, I guess. So you mentioned the supply
- 16 chain, Jay, right? You mentioned supply chain
- 17 issues and the complexity with wholesalers. Was
- 18 that sort of assuming there was no sell-through
- 19 in that channel, and that's what generated the
- 20 complexity?
- MR. SMITH: Yes.
- 22 COMMISSIONER MCALLISTER: So does the
- 23 allowing of sell-through completely by and large
- 24 solve that complexity for you, if you can kind of
- 25 just start shipping new product and putting it in

- 1 the end of the chain?
- 2 MR. SMITH: You're spot on, it's a big
- 3 benefit because then we don't have to reach out
- 4 to all these constituents and organize any type
- 5 of return of product and replacement so that
- 6 their business can go on, so sell-through is a
- 7 big advantage.
- 8 COMMISSIONER MCALLISTER: What's your
- 9 sense of what timeframe of inventory they
- 10 actually tend to keep on hand? I imagine it
- 11 varies quite a bit, but just sort of typically?
- MR. SMITH: It really does vary and I
- 13 will describe it this way. In retail when we
- 14 make a change, we can do it what we call
- 15 "quickly," like within three to six months. In
- 16 the wholesale channel, it's sometimes six months
- 17 before we actually get the inventory managed and
- 18 replaced.
- 19 COMMISSIONER MCALLISTER: Okay. I'll
- 20 stop there for now, but I want to let you
- 21 continue.
- MR. SMITH: Moving on to the next item
- 23 which was showerheads, the CEC proposal was that
- 24 all showerheads manufactured on or after January
- 25 1, 2016 should not exceed 2.0 GPM max flow. That

- 1 one, definitely more difficult for us, definitely
- 2 a date sooner than we would like, as Jay
- 3 referenced, we were proposing a date of July 1st,
- 4 2016 for that. I will say again that having the
- 5 sell-through option definitely helps us, that's a
- 6 big part of making this work. But I think this
- 7 is a case where, you know, there will be product
- 8 available, but would only undoubtedly have some
- 9 out-of-stock conditions on certain models as we
- 10 hit the new year, but that's something that we
- 11 can probably all manage through to get through
- 12 this time.
- Just again to reiterate what was said,
- 14 having the sell-through makes a big difference
- 15 from the standpoint of return, managing what our
- 16 customers and distribution has, and also making
- 17 sure that everyone has that product back in time.
- 18 So that's a big benefit to the manufacturers to
- 19 have that.
- Now, if we go on to the next one, I just
- 21 want to touch briefly on the 2.0 GPM max
- 22 showerheads. We certainly support a flow rate of
- 23 2.0 GPM. As was referenced earlier, showerheads
- 24 must be balanced with the valves in order to
- 25 protect the bather from thermal shock and

- 1 scalding, and right now there are very few
- 2 automatic compensating valves on the market
- 3 certified to flow rates below 2.0 GPM, so 2.0 is
- 4 a flow rate where the showerheads will be able to
- 5 have matching valves for that one.
- 6 The other thing is, with showerheads at
- 7 2.0 we achieve 20 percent savings over Federal
- 8 Standards. They meet strict performance
- 9 guidelines. More importantly, we know that the
- 10 showering experience is still acceptable to the
- 11 bather. One of the largest risks is if we go to
- 12 a point where it's no longer acceptable to the
- 13 end user, that's when customers start tampering
- 14 with the products, start drilling out or yanking
- 15 out flow regulators to get a better shower. So
- 16 we feel like showering is a very user experience
- 17 defined item and we need to make sure that we get
- 18 full adoption. And we believe the 2.0 GPM
- 19 showerhead will indeed make sure that there's
- 20 still satisfaction with the consumers when we
- 21 would make this change.
- 22 COMMISSIONER MCALLISTER: So what
- 23 percentage of the showerhead market is at or
- 24 below, or around at 2.0 or below right now?
- 25 MR. SMITH: It varies. I would say it's

- 1 probably on the order of 30 to 35 percent right
- 2 now.
- 3 COMMISSIONER MCALLISTER: Okay. Is that
- 4 about right? Okay.
- 5 And then I also wanted to I'm sort of
- 6 asking as I've noted down here, just to make sure
- 7 we get our questions answered, but so I really
- 8 have two questions, I want to get your response
- 9 to the Case Team 1.8, and you're probably getting
- 10 there. Then the other is talking about sort of
- 11 digging a little bit deeper into the aerator
- 12 supply chain and, you know, I think, Jay, you
- 13 mentioned there was some portion of the
- 14 marketplace you can kind of pop in and out and
- 15 sort of it's an easier change, and other you have
- 16 to redesign. I want to sort of get more of a
- 17 sense for the portions of the marketplace and
- 18 sort of what those scenarios might look like.
- MR. BURNETT: Okay. Do you want to take
- 20 the 1.8?
- 21 MR. SMITH: Sure. We'll start with the
- 22 1.8. I think the worst thing that could happen
- 23 for manufacturers is if we ratchet down the flow
- 24 rate .1 GPM every year, not because it's
- 25 undoable, but because it's a logistical nightmare

- 1 to try to manage that, to go through all the
- 2 packaging changes, all the literature changes,
- 3 updating all of the website information, that
- 4 makes it extremely difficult when we tweak and
- 5 tweak year after year. We'd much rather go with
- 6 more of a long term plan to say, "Okay, maybe
- 7 four years out we hit a 1.75 GPM," or something,
- 8 but leaving some space in there helps minimize
- 9 the amount of scrap if we have -- often retail
- 10 boxes are purchased in the tens of thousands, and
- 11 if we get to a point where they need to be
- 12 scrapped out, it's a lot of wasted money and
- 13 wasted material. So we would much rather have it
- 14 spread out so that it's not constant tweaks for
- 15 the supply chain.
- 16 COMMISSIONER MCALLISTER: Because their
- 17 proposal was two years after, do a 1.8, right?
- 18 MR. SMITH: Right. So we would say two
- 19 years is still a pretty tight timeframe, we would
- 20 much more recommend going something further out
- 21 and let's see how the 2.0 gets adopted and what
- 22 the market reaction is to that before we make a
- 23 decision on that.
- 24 COMMISSIONER MCALLISTER: Okay, thanks.
- 25 So the other part of my question?

- 1 MR. BURNETT: Okay, the second question
- 2 related to the ease of change in aerators. What
- 3 I alluded to, through the evolution of faucets we
- 4 now have faucets that have what's called "open
- 5 channels." I don't know if you -- you've seen
- 6 them, but the water actually comes through the
- 7 top of the faucet, and it doesn't go through an
- 8 aerator end device, so that flow control is
- 9 actually administered within the spout and/or the
- 10 body that's underneath the deck, the mounting
- 11 surface. So I mention that in the best example
- 12 of it takes a little bit more of a technical
- 13 challenge to achieve not only the flow control,
- 14 but then the aesthetics, or the flow pattern that
- 15 comes through that channel, that's something that
- 16 is the reason our consumers buy them, for
- 17 example. Does that answer your question as to
- 18 --?
- 19 COMMISSIONER MCALLISTER: Yeah, I think
- 20 so. What percentage of the marketplace, I mean,
- 21 I imagine those are kind of high endish fairly --
- MR. BURNETT: They've really been growing
- 23 over the last five years and they're probably
- 24 around the five to seven percent of our product
- 25 line are open channels.

- 1 COMMISSIONER MCALLISTER: Okay.
- MR. BURNETT: And if I could go back, you
- 3 had previously asked about the percent of
- 4 showerheads currently at 2.0, and I think Joel
- 5 said around 35, that's probably a good answer for
- 6 our coalition of representation. I know for us
- 7 it's slightly over that, but it's 40-some
- 8 percent, so I think that's a very good estimate.
- 9 MR. SMITH: One additional item on the
- 10 aerators, I think it is important to point out
- 11 that it's not just one or two aerators that
- 12 manufacturers are dealing with, I'll speak for
- 13 Kohler, we have 27 different aerators that go
- 14 into our lab(lavatory) faucet, so there was
- 15 reference made to NEOPERL who is the sole
- 16 supplier of all 27, so for them it's not just a
- 17 matter of tweaking one aerator and shipping that
- 18 out, there's 27 different models that they need
- 19 to design and test and certify before they can
- 20 ship those out. So there's quite a bit of work
- 21 involved in that, as well.
- MR. SMITH: And for clarity, NEOPERL does
- 23 belong to PMI, they're a --
- 24 COMMISSIONER MCALLISTER: Yep, I knew
- 25 that. I think you'd said that at the last

- 1 meeting. So I believe it was in the IOU case
- 2 presentation, there was some assertion really
- 3 that some of those were currently available and
- 4 that NEOPERL will be ready to ship, is ready to
- 5 ship some, and will be ready soon on the others.
- 6 What does that look like to you?
- 7 MR. BURNETT: Yeah, right. We have not
- 8 received any production orders from NEOPERL of
- 9 any 1.2 aerators yet, and they have given us a
- 10 schedule that still extends out through the fall
- 11 right now, so it's -- we don't have them coming
- 12 in yet. I think the other thing to also talk
- 13 about is the fact that, besides the aerator
- 14 itself, all of our products are marked with the
- 15 flow rate, so many are marked on the spout,
- 16 they're either laser engraved or there may be a
- 17 stamping that's put into the faucet body. So
- 18 besides changing out the aerator, we also need to
- 19 go back and change hard tools like stamping tools
- 20 and things like that to update with the new flow
- 21 rates. So there's multiple parts to this
- 22 project, not simply changing out the aerator.
- 23 COMMISSIONER MCALLISTER: Yeah, I'm
- 24 trying to get a sense for the logistics. I mean,
- 25 these are things that you typically do as a

- 1 business and we're asking you to do it faster,
- 2 but I'm just trying to get a sense of like is it
- 3 doable or not. I mean, I'm not saying it's easy.
- 4 MR. BURNETT: Right, and I think the date
- 5 that was proposed by the CEC staff, as I said,
- 6 it's a stretch to get that done and there may be
- 7 some disruption, but it would be limited. We
- 8 think we can get that done.
- 9 COMMISSIONER MCALLISTER: Okay, thanks.
- 10 Any questions? Okay. So you have a conclusion,
- 11 okay.
- MR. BURNETT: So the conclusion is simply
- 13 a request that you review our proposal and
- 14 hopefully it was explanatory by itself enough.
- 15 And thank you again for the chance to speak
- 16 today.
- 17 COMMISSIONER MCALLISTER: All right,
- 18 great. Thanks a lot.
- MR. BURNETT: Thank you.
- MS. DRISKELL: All right, thank you. The
- 21 next presentation is from Natural Resources
- 22 Defense Council.
- 23 MS. QUINN: Good afternoon. My name is
- 24 Tracy Quinn. I'm a Civil Engineer and Policy
- 25 Analyst with the Natural Resources Defense

- 1 Council. I'm going to talk a little bit today
- 2 about the lavatory faucet standard and then I
- 3 just have one slide on showerheads and some
- 4 suggestions for potential other products that the
- 5 CEC staff might want to look at for future
- 6 standards.
- 7 I'd like to start off by saying that NRDC
- 8 is still in support of the standard for lavatory
- 9 faucets that was adopted under the emergency
- 10 rulemaking. We think that the 1.2 GPM standard
- 11 with the January 1, 2016 effective date is
- 12 achievable and it's important for us to work
- 13 towards this.
- 14 As Sean mentioned earlier, you know,
- 15 while 1.2 GPM faucets and aerators might not be
- 16 the majority of the market right now, we do have
- 17 quite a few products current on the market that
- 18 meet this, and a lot of those fall at 1.0 GPM.
- 19 One gallon per minute does meet the standard that
- 20 was adopted, and we need to keep that in mind as
- 21 a probably more appropriate interim level than
- 22 just going to the 1.5.
- 23 As noted up here, there are hundreds of
- 24 models, I think we noted 378 faucets and faucet
- 25 aerators rated at 1.0 GPM. That was from the case

- 1 report that happened during the emergency
- 2 rulemaking. There's also plenty of evidence that
- 3 was applied during the Title 20 rulemaking that
- 4 suggest that 1.0 gallon per minute lavatory
- 5 faucets provide a satisfactory customer
- 6 experience.
- 7 Standards have been behind some of our
- 8 biggest efficiency success stories, but every
- 9 time a tough standard is imposed, industry
- 10 instantly claims that the sky is falling and
- 11 compliance will be impossible, or too expensive.
- 12 Then, you know, they often go out and solve the
- 13 problem and everybody is better off. I provided
- 14 a few examples that I think everyone in the room
- 15 is familiar with, the refrigerator energy
- 16 efficiency, television energy efficiency, and of
- 17 course automobile fuel efficiency.
- 18 Energy Standards have played a major role
- 19 in saving energy and water and reducing utility
- 20 bills. In a recent ACEEE and ASAP report,
- 21 impacts of these standards on customers were
- 22 analyzed over time. The study found that
- 23 performance generally stay the same or improved,
- 24 Manufacturers offered new features to customers,
- 25 and prices declined or stayed the same for five

- 1 of nine products, and they observed prices for
- 2 the other four products was less than the
- 3 electricity savings.
- 4 Delaying the implementation of this very
- 5 reasonable standard would also set a terrible
- 6 precedent.
- 7 As previous presentations have shown, you
- 8 know, we're in an epic drought right now. 2012-
- 9 2014 was the driest three-year period in the last
- 10 1,200 years. Many water suppliers have been
- 11 asked to reduce their water demand by 25 percent;
- 12 for each individual supplier that ranges from
- 13 eight to 36. Maintaining the January 1st date
- 14 for 1.2 will really help suppliers to meet this
- 15 limit.
- I know there's been a lot of talk about
- 17 having an El Niño year this year and a lot of the
- 18 media is talking about how it's going to be a
- 19 drought buster, but this is the creation of the
- 20 media and it's not based in science or data. I'd
- 21 like to remind everyone that last year was also
- 22 El Niño conditions, and we still set temperature
- 23 records and had a very dry winter. And just for
- 24 everyone's edification, we've had 23 El Niños in
- 25 the last 65 years, and only nine of them have

- 1 resulted in wetter than average years. And El
- 2 Niños often bring rainfall to Southern
- 3 California, not where we need it most in Northern
- 4 California, so something to keep in mind when
- 5 we're all praying for rain and hoping for a good
- 6 El Niño.
- 7 That being said, we need to do as much as
- 8 we can right now. Given the status of the
- 9 drought, it makes a lot more sense to allow the
- 10 1.0 faucets to fill the market gap for 1.2 GPM
- 11 faucets for the next seven and a half months,
- 12 rather than 1.5 GPM faucets, which according to
- 13 PMI already makes up about 90 percent of the
- 14 market share in California and therefore would
- 15 provide no real additional savings.
- 16 NRDC believes the adopted Standard of 1.2
- 17 GPM for lavatory faucets with a January 1, 2016
- 18 implementation deadline is appropriate and
- 19 doable, and it's important to note the delay of
- 20 this standard would have long lasting ripple
- 21 effects as the faucets sold in 2016 will likely
- 22 be in use for the next 10 years or more. This
- 23 also applies to sell-through, so it's important
- 24 to think of that when we consider some of these
- 25 other alternatives.

${f l}$ If t	the Commission	does decide	to delay
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- 2 implementation, NRDC would support the revised
- 3 schedule recommended by the staff that provides
- 4 an additional six months to manufacturers to
- 5 bring the product to market.
- 6 The Plumbing Manufacturers' request for a
- 7 full year's delay on top of the seven and a half
- 8 months provided in the Emergency Rule would be
- 9 excessive.
- 10 Many -- oh, I forgot my props -- many new
- 11 lavatory faucets rely on threaded aerators to
- 12 achieve flow control. PMI has placed a timeline
- 13 of transition activities into the Commission
- 14 docket that shows that 1.2 GPM aerator products
- 15 should be available by January 1, 2016, or
- 16 shortly thereafter. If that is the case, then
- 17 compliant lavatory faucets with threaded outlets
- 18 should also be available in this timeframe, or
- 19 shortly thereafter. Thus, the staff proposal
- 20 could reasonably be strengthened by maintaining
- 21 January 1, 2016 for aerator products and faucets
- 22 with threaded outlets. To show you how easy it
- 23 is to comply, this is a 1.5 GPM faucet and a 1.0
- 24 GPM aerator. This cost me \$4.00. It's harder on
- 25 stage. Well, here you go. You have to be

- 1 smarter than the threading. But now it's
- 2 compliant.
- I urge the Commission to uphold the 1.2
- 4 GPM Standard with a January 1, 2016 deadline, but
- 5 if a delay is granted, it should be for no more
- 6 than six months. Thank you.
- 7 COMMISSIONER MCALLISTER: So you said
- 8 that was a 1.0 aerator? And where did you buy it
- 9 and who made it?
- MS. QUINN: It's a NEOPERL and I bought it
- 11 at Home Depot for \$4.00 about two hours ago.
- 12 COMMISSIONER MCALLISTER: Is that a
- 13 residential faucet?
- MS. QUINN: It is.
- 15 COMMISSIONER MCALLISTER: Okay, thanks.
- 16 So just to be clear, your proposal is 1.2 by
- 17 January 2016 for all faucets that have threaded
- 18 aerators? Or just all open like aerators
- 19 themselves at the store, or both?
- 20 MS. QUINN: Well, yeah, I think we would
- 21 support, if you guys see a reason for delay, for
- 22 a January 1, 2016 deadline for 1.2 aerators and
- 23 threaded faucets.
- 24 COMMISSIONER MCALLISTER: Okay, but so
- 25 that's the proposal?

- 1 MS. QUINN: Yes.
- 2 COMMISSIONER MCALLISTER: Okay. Thanks
- 3 very much.
- 4 MS. DRISKELL: Thanks, Tracy. Our next
- 5 presentation is from the retailers, Pamela
- 6 Williams from the California Retailers
- 7 Association, and Mark Kimball from Home Depot.
- 8 MS. WILLIAMS: Thank you, Commissioners.
- 9 I won't be using all the allotted time, so I
- 10 wanted to give an opportunity for Home Depot to
- 11 address some technical questions or issues you
- 12 might have.
- On the issue before us, the way we
- 14 approach it from the retail industry is obviously
- 15 different than the Manufacturers would. We look
- 16 at basically three issues. First of all, will
- 17 there be sufficient product available for
- 18 consumers to purchase? Obviously we're in the
- 19 business of selling, so which one we're selling
- 20 is not as important as the fact that we have
- 21 product to sell. And so if we are out of stock
- 22 or the shelves have nothing on them, or there's
- 23 not a lot of sufficient choices for consumers,
- 24 we've not only potentially lost the sale, we've
- 25 lost potential consumer loyalty, which is really

- 1 important to retailers.
- 2 Secondly, we look at whether or not we
- 3 can sell-through existing product. Often, the
- 4 Legislative or regulatory changes have a
- 5 definitive date by which we have to be compliant,
- 6 and the problem with this is obviously sell-
- 7 through, in many cases the retailer ends up
- 8 eating the existing inventory that they've paid
- 9 for, and now as of a certain date have to get rid
- 10 of and eat the cost.
- 11 And thirdly, we look at whether the
- 12 change can be operationally accomplished at the
- 13 retail level within the allotted timeframe
- 14 because you have to remember, we're looking at
- 15 one or two or six or 100 products out of 10 to
- 16 100,000 products at the average big box retailer.
- 17 So looking at this, the quick summary is
- 18 on the proposal before you, are these questions
- 19 answered favorably from our perspective? And the
- 20 answer is generally, yes. We also support PMI
- 21 and the staff recommendation about the 1.5 GPM
- 22 faucets being offered immediately, or as of
- 23 September 1, which is what's proposed. We
- 24 support the 1.2s being available July 1 of 2016;
- 25 truthfully, we would have liked January 1 of 2017

- 1 because it allows more time in the distribution
- 2 channel, but the Manufacturers tell us they can
- 3 get it to us, and if they can get it to us, then
- 4 we can sell it. So we are willing to agree to
- 5 that July 1, 2016 date for the 1.2s, especially
- 6 in light of the fact that the change you all made
- 7 in the staff proposal about sell-through. So as
- 8 long as we can do the sell-through of the
- 9 existing, we're good.
- 10 And then lastly, for the showerheads
- 11 manufactured on or after January 1 of 2016, yes,
- 12 we accept this, as well. I will just add an
- 13 unscheduled comment in response to some of the
- 14 testimony you've heard. The proposal to move to
- 15 1.2s by January 1 is four months away, and we've
- 16 certainly not had any discussions with PMI in
- 17 terms of whether Manufacturers could even get us
- 18 that, but the idea that retailers would be able,
- 19 you know, it's August 1 this week, to be able to
- 20 completely turn it around with four months when
- 21 you look at that we order six to nine months, in
- 22 some cases 12, ahead of time, sometimes we're
- 23 ordering globally, internationally, they have to
- 24 get here, they have to arrive on a container
- 25 ship, or be shipped across the United States, and

- 1 they have to go to our warehouses or distribution
- 2 centers first, and then get distributed out to
- 3 the stores. So a 120-day window for the change
- 4 sounds to us a little bit terrifying at this
- 5 point in time.
- 6 COMMISSIONER MCALLISTER: Although, you
- 7 know, we talked a little bit about sell-through
- 8 and this is a manufactured by date essentially if
- 9 we're talking sell-through, not a "be on the
- 10 shelves" date. Right?
- 11 MS. WILLIAMS: Yes, this is if the
- 12 manufacture date is manufactured before the
- 13 effective date, we would be allowed to sell it
- 14 through, but not order any new ones as of that
- 15 effective date.
- 16 COMMISSIONER MCALLISTER: Correct. So I
- 17 quess I'm -- the pinch point you just described
- 18 seems to be get in on the shelves by January 1.
- MS. WILLIAMS: Correct.
- 20 COMMISSIONER MCALLISTER: Whereas the
- 21 pinch point we're really talking about with the
- 22 proposal that's on the table now is a manufacture
- 23 by date by January 1. So I want to just make
- 24 that clear.
- MS. WILLIAMS: True. That's correct.

- 1 COMMISSIONER MCALLISTER: So could you
- 2 sort of talk about your supply chain with that
- 3 January 1?
- 4 MS. WILLIAMS: And that's a good segue,
- 5 I'll introduce Mark Kimball, who is the Regional
- 6 Merchandising Manager for Northern California for
- 7 Home Depot.
- 8 MR. KIMBALL: Like she said, my name is
- 9 Mark Kimball. I've been with Home Depot 17
- 10 years. I've been in the home improvement
- 11 industry 35 years, virtually all of it in
- 12 California. We recognize the drought like
- 13 everybody does. We put a phenomenal amount of
- 14 effort and myself personally in re-merchandising
- 15 for the drought. If you look at programs that
- 16 are national programs with us, we've done switch-
- 17 outs in all the California stores that had to do
- 18 with toilet laydowns, switching out fertilizer,
- 19 switching out herbicides, and putting in product
- 20 that would be more conducive for the drought, and
- 21 it could be artificial turf, it could be drip
- 22 systems, you know, water timers, water heater
- 23 timers, and those kind of things. So again, when
- 24 you look at making those switch-outs, we did this
- 25 a year ago anticipating what the drought would be

- 1 this year and we were able to get that turned
- 2 around in all the stores in California.
- If you look at when it comes to water,
- 4 the frustrating part for us and to be able to do
- 5 signage and things like that is that it's really
- 6 based off of hundreds and hundreds of water
- 7 districts. And it really makes it tough to do a
- 8 lot of things in that respect. We offer a
- 9 website for the consumers, we've done drought
- 10 kits that we've given to the consumers, but in
- 11 respect to the water in some cases, you know,
- 12 we'll say there's a water rebate at this
- 13 particular County, but they run out of money and
- 14 then things they purchased a month or two months
- 15 ahead of time that they're coming back for that
- 16 particular rebate.
- 17 So a little bit of frustration in dealing
- 18 with that. But that being said, we've taken time
- 19 this year, we've already anticipated a drought
- 20 next year and already put these things in place,
- 21 and there's a lot to it. If you look at the
- 22 amount of drought tolerant plants that we put in
- 23 place, we had those growers start this well over
- 24 18 month ago. If you look at the succulents that
- 25 took the place of a lot of the other shrubs and

- 1 things that we have, so there's a lot of planting
- 2 that goes into that.
- If you look at the scope and just kind of
- 4 complexity around lab(lavatory) faucets, we have
- 5 232 stores in California, brick and mortar
- 6 stores. There is on average 188 stocking units
- 7 or models of lab faucets in this California area.
- 8 The average store stocks about 100 of those
- 9 models. That is right now today, there's 154,000
- 10 of those models throughout the chain in Home
- 11 Depot in California.
- Now, to add to that, there's over --
- 13 COMMISSIONER MCALLISTER: Just so I
- 14 understand, just to clarify, so 154,000 units?
- MR. KIMBALL: Units, yeah.
- 16 COMMISSIONER MCALLISTER: Sitting on the
- 17 shelves in California, okay.
- 18 MR. KIMBALL: 154,000 units, \$11.4
- 19 million.
- 20 CHAIRMAN WEISENMILLER: I just wanted to
- 21 understand 150,000, what sort of inventory does
- 22 that represent? Three-month sale, six months?
- 23 Roughly.
- MR. KIMBALL: It varies a lot, you're
- 25 probably looking anywhere on average from 10 to

- 1 16 weeks of supply in the stores, but further
- 2 when you look at that, if you look at .com,
- 3 there's over 2,500 units and there's over 2,000
- 4 stocked in our Distribution Centers. And so,
- 5 again, the sell-through is extremely important
- 6 because we found, I mean, if you didn't have that
- 7 you end up with shortages on the shelves, then
- 8 all of a sudden, you know, you kind of lose that
- 9 ability for people to adopt these things, you
- 10 know, pretty quickly. So, again, that will be a
- 11 major point and I think if you think of the
- 12 dot.com, you think of all the packages. You
- 13 know, now you're actually managing two sets of
- 14 inventory, but you think of the packages that you
- 15 would have to change, and then you think about
- 16 operationally in a store for returns, that you've
- 17 got to have this pop up, that, okay, this faucet
- 18 is no longer available, maybe it's brought back
- 19 three months from now, six months from now, or
- 20 nine months from now. So that gives you kind of
- 21 a level of the complexity on that.
- 22 And I will say that, you know, being
- 23 through some droughts, being in California
- 24 virtually all my working life, that if you look
- 25 at product, that if the product isn't as good as

- 1 what you're used to using, you can go get a
- 2 backlash very quickly, especially today when you
- 3 look at the Internet and all the ability of
- 4 Social Media and all that, so what I say is,
- 5 whatever you do the product really has to be
- 6 designed right, or I think you get a backlash
- 7 where the adoption would be far worse than what
- 8 you would. So, don't know, I mean, you get the
- 9 Manufacturers that deal with that, but whatever
- 10 you do that you have to have a comfort level that
- 11 the designs you're going to get, what you're used
- 12 to using, and designed and engineered, to where
- 13 you can get that really good adoption throughout
- 14 the consumers.
- 15 COMMISSIONER MCALLISTER: Thanks for your
- 16 insight, I really appreciate it. For you and
- 17 also for the PMI members that presented before, I
- 18 quess I've not heard that from the thread of the
- 19 aerator side of things about this service
- 20 equivalency. And I'm wondering if that's really
- 21 any different, depending on no matter what the
- 22 date is. Like, you know, is there a redesign
- 23 process there that is any different from just
- 24 popping in a new aerator, you know, or not.
- 25 And then also trying to still get my head

- 1 around the fact that the relatively simple
- 2 aerator retrofit products are the vast majority
- 3 of the marketplace and if we can do the vast
- 4 majority of the marketplace sooner rather than
- 5 later, then why wouldn't we? So a couple
- 6 questions along those lines.
- 7 MR. SMITH: Sure. So as far as the
- 8 simplicity of it, it does appear simpler, but
- 9 again the fact of threading it on, it's pretty
- 10 simple. But the process of going through and
- 11 changing the markings on the product, updating
- 12 the packaging and literature all still takes the
- 13 same amount of time. Just threading the aerator
- 14 on doesn't mean you have a product that's been
- 15 listed with the national agencies, with CEC, or
- 16 with DOE. So until all those listings are done,
- 17 it's illegal for us to sell that product or ship
- 18 it. So even though it looks pretty
- 19 straightforward, it still takes time. As far as
- 20 what percentage are those threaded on, it's
- 21 getting less and less because the whole industry,
- 22 even at the lower end, is moving to more of a
- 23 aesthetically pleasing faucet where the aerators
- 24 are threaded up inside the product and it's not
- 25 just a bulb of chrome plated brass sticking out.

- 1 So I'd say it's probably -- and this is a very
- 2 rough estimate -- but maybe like 30 or 40 percent
- 3 are the ones with it hanging out, and more and
- 4 more are moving to concealed aerators like that.
- 5 But again, the simplicity, it's not in just
- 6 changing out the aerator, it's all of the
- 7 listings, the testing, everything else that goes
- 8 with it.
- 9 COMMISSIONER MCALLISTER: Okay, I quess,
- 10 you know, just trying to sort of get through the
- 11 how serial of a process is this versus kind of
- 12 what can happen in parallel, and you know, good
- 13 point on the different kinds of connections of
- 14 the aerators to the fixture. But I quess, you
- 15 know, from a manufacturing perspective, is that
- 16 an integral redesign or is that really a sort of
- 17 putting a different aerator into the
- 18 manufacturing process?
- 19 MR. SMITH: Certainly on that one, it's
- 20 not an integral redesign. That is, changing out
- 21 the bill of material for the product, putting a
- 22 new aerator in there. So the place where it
- 23 would be a redesign would be when the flow rate
- 24 is marked on the faucet body or something where
- 25 we have to go and change a hard stamping tool

- 1 and, you know, grind off what used to say 1.5 GPM
- 2 and re-burn in the 1.2 GPM and change the
- 3 stamping. And then the additional part of that
- 4 is the supply chain, once we make that change,
- 5 then we've got to make samples, prove out that
- 6 all the graphics look good, and then start making
- 7 complete units, shipping all the components in
- 8 and start manufacturing. So even something on
- 9 that which appears simple has a lot more to it.
- 10 CHAIRMAN WEISENMILLER: I guess I wanted
- 11 to understand from the realtors (Sic) retailers
- 12 the question of assuming we did a two-phase
- 13 showerhead, the timing on the second phase, the
- 14 difference between two years, three years, or
- 15 four years, if any.
- MR. KIMBALL: I'm sorry, I didn't know he
- 17 was addressing -- okay. Go over your question
- 18 again?
- 19 CHAIRMAN WEISENMILLER: Okay. I mean,
- 20 there was a discussion, a proposal that we
- 21 adopted two-phase from the showerheads, one now
- 22 and then a lower one later. And the question was
- 23 how long. And so the question is, you know, we
- 24 had one proposal for say two years and then
- 25 another one was three or four years. We're

- 1 trying to understand if that made any difference
- 2 to you in terms of the timing.
- 3 MR. KIMBALL: You know, from a timing
- 4 standpoint, I don't think from our perspective it
- 5 probably would, providing that the product was
- 6 there. I do understand if you look at, again,
- 7 just the amount of products that are in there, I
- 8 gave you kind of an idea of their supply chain,
- 9 how many units there are, or how many models
- 10 there are, and you start looking at the sheer
- 11 volume of packaging changes and everything else,
- 12 and it would probably work into that. But from
- 13 our standpoint, there would be, you know, if a
- 14 product was there to sell and available, it would
- 15 be seamless for us.
- 16 MS. WILLIAMS: The only caveat I would
- 17 add to that, Commissioner, is that if we had a
- 18 choice optimum, the effective date would be a
- 19 July 1 effective date, regardless of the year
- 20 because it's really difficult -- the January 1
- 21 dates, because the work has to be done at the
- 22 holidays, and that's the worst time for retail,
- 23 we have tax issues, end of year reporting, let
- 24 alone the holidays. So that's just a preference.
- 25 CHAIRMAN WEISENMILLER: And also, I just

- 1 wanted to understand how well things were
- 2 identified in your stores for different water
- 3 efficiency. Again, maybe efficient/inefficient,
- 4 or whatever, just trying to make sure as people
- 5 go in, particularly when we do the rebate
- 6 programs, that it's easy for the customer to buy
- 7 the right one.
- 8 MR. KIMBALL: Yeah, it's a good question.
- 9 If the State does a rebate program, it's
- 10 generally pretty easy for us to really manage
- 11 that rebate. You know, if the state does versus
- 12 hundreds and hundreds of water agencies that kind
- 13 of shift, we can do signing, we can do very
- 14 quickly we can turn that around, we have it on
- 15 our websites, we get all the stores engaged in
- 16 and involved in. Rebates handle on the store
- 17 level and with us it would be very easy if it has
- 18 gone through the State. And we've done it
- 19 before, we did it on appliances. You know, you
- 20 take 2008, 2009, it was very successful with it.
- 21 We do it with a signing, you know, and we get
- 22 absolutely phenomenal adoption when we work in
- 23 partnership with the State on those rebates.
- 24 COMMISSIONER MCALLISTER: I'm very
- 25 familiar with that process and certainly in a

- 1 past life shared your frustration with how many
- 2 water districts there are and how difficult, how
- 3 non-uniform they are in terms of the rebate
- 4 programs. So I absolutely agree with you that
- 5 upstream is better and probably statewide is
- 6 better, or at least utility service territory, or
- 7 whatever. I guess, have you done those sorts of
- 8 campaigns and labeling in store, etc. for just
- 9 product transitions, changeovers, that don't have
- 10 a rebate attached to them?
- MR. KIMBALL: Yeah, we have. If you look
- 12 in the stores now, you look at our Water Wise
- 13 Plants would be a very big transition, is
- 14 virtually marked in every single store. We do it
- 15 on our drip systems, there's just multiple
- 16 products. If you look at the labeling on a water
- 17 heater recirculating pump, it's \$199, but it
- 18 saves 16,000 gallons of water per year. So
- 19 that's some of the big things. We also have it
- 20 on the -- even on the aerators, you know, the
- 21 water saver showerheads and things like that,
- 22 have a lot of signing on the packages and in the
- 23 stores. We have a large sign as you walk into
- 24 the store that really talks in general about
- 25 faucets and toilets and those kind of things that

- 1 stand six-foot tall as you walk in the store,
- 2 that really kind of shout out that. And then in
- 3 the individual stores themselves, depending on
- 4 the water districts they're in, they'll actually
- 5 post the rebates that are available through that
- 6 County, or from that particularly water agency in
- 7 those individual stores. Very localized signing
- 8 on that.
- 9 COMMISSIONER MCALLISTER: Yeah, okay. So
- 10 I guess I'm still struggling a little bit with
- 11 that sort of manufacture date versus the end of
- 12 the sell-through period, right? Because really
- 13 what we're talking about from your perspective,
- 14 it seems to me we're mostly talking about making
- 15 sure we have product on the back end of the sell-
- 16 through periods, so you can restock the shelves
- 17 with a complying product that was manufactured
- 18 after the date, or that at least you're not empty
- 19 shelves while you're waiting for new product. So
- 20 you know, maybe that presents a challenge for the
- 21 marketing side because maybe your new products
- 22 are kind of coming out in drips and drabs as you
- 23 sell-through. The effective date is for
- 24 manufacturing rather than being on the shelves.
- 25 So I quess I'm kind of wanting to come back to

- 1 the Manufacturers, you know, so there's a lot of
- 2 things that need to happen, you know, the
- 3 labeling, and if you have to retool and stuff
- 4 like that. But how many of those things, or
- 5 which of those things can happen in parallel
- 6 versus, you know, it's not a serial process
- 7 necessarily, right?
- 8 MR. KIMBALL: Certainly the literature
- 9 can happen in parallel with the packaging and the
- 10 stamping. I think the thing that gets difficult
- 11 is, unlike when we introduce a normal new product
- 12 where we have one, or two, or four or five
- 13 products, now we're talking for Kohler about 400
- 14 different lab(lavatory) faucets if we're just
- 15 going to talk about lab faucets -- 400 when you
- 16 count all the different stock keeping units and
- 17 all the different finishes that we're taking
- 18 through. And the retailers from the Home Depot
- 19 side, it presents a pretty small subset in that
- 20 they tend to stock high volume, low number skews
- 21 that move pretty quickly. It's pretty straight
- 22 forward with them. When you go to the wholesale
- 23 side of the business, which is even bigger still,
- 24 now you're dealing with a much greater variety of
- 25 products and they don't necessarily move as fast,

- 1 and they're stocked in a much greater number of
- 2 different finishes and aesthetics, and that type
- 3 of thing. So as far as the number of products,
- 4 it's kind of the overwhelming part of this is
- 5 hitting the entire product line at one time. So
- 6 even though we can do things in parallel, it's
- 7 still we only have so many people that can
- 8 actually do the work on creating the new graphics
- 9 for the packaging, or creating the new
- 10 literature, or doing the conversions of tools to
- 11 burn out old flow rate markings and put in the
- 12 new ones. That's what presents the challenge.
- 13 COMMISSIONER MCALLISTER: Okay, thanks
- 14 very much. Do we have additional presentations?
- MS. DRISKELL: We do. We have the end of
- 16 a presentation. NRDC had a couple more slides
- 17 that they forgot to present, so I'll have Tracy
- 18 come back up and present those.
- 19 MS. QUINN: Just to the showerhead; I
- 20 think it's slide 6. So I'd just like to say that
- 21 NRDC strongly supports the IOU proposal for a
- 22 two-tiered Standard. The two-tier scenario would
- 23 increase the savings by 60 percent over the staff
- 24 proposal, that's a really impressive amount. And
- 25 that's only in the residential sector. We also

- 1 see additional savings in commercial applications
- 2 like gyms and spas and office buildings, which
- 3 will easily garner 10 percent savings, maybe even
- 4 20 percent additional savings.
- 5 We'd also like to ensure that the body
- 6 sprays and hand-held showerheads are included in
- 7 the standard and we have suggested some language
- 8 to the Standard.
- 9 And finally, it would be advantageous for
- 10 the rated flow of mixing valves to be reported by
- 11 model number, as well as labeled on packaging.
- 12 This would allow specifiers to confirm the
- 13 compatibility of the valve with the showerhead at
- 14 the design stage, rather than at the jobsite.
- 15 Such an addition to the reporting database could
- 16 also be helpful for characterizing over time the
- 17 market penetration of shower mixing valves with
- 18 low rate of flows.
- 19 COMMISSIONER MCALLISTER: So if I'm a
- 20 homeowner and I'm changing out my showerhead, can
- 21 I get the rating of the mixing valve somehow on
- 22 the exterior of the fixture? Like I don't have
- 23 to bust open my wall, right, to see what the
- 24 compatibility would be? In a retrofit
- 25 application?

- 1 MS. QUINN: Yeah, I think that's probably
- 2 a good question for the Manufacturers about what
- 3 they I think we just like, going forward, we
- 4 want that labeling to be available on the
- 5 packaging so when you're doing a new construction
- 6 or doing the retrofits that you have that data
- 7 available, and that also that it's reported to a
- 8 database.
- 9 COMMISSIONER MCALLISTER: Sure. Yeah,
- 10 thanks.
- MR. BERTRAND: John Bertrand for Moen -
- 12 COMMISSIONER MCALLISTER: No, want to
- 13 just in general get a sense of this compatibility
- 14 issue with the mixing valves and the showerheads,
- 15 and what information one needs to ensure
- 16 compatibility and whether that's available in a
- 17 retrofit application.
- 18 MR. BERTRAND: The answer is no. The
- 19 person today does not know what type of valve
- 20 they have in their wall. They absolutely do not.
- 21 So retrofits is a good topic, it's just being
- 22 brought up now. When you start to talk about
- 23 going to lower flow rate showerheads, you
- 24 increase their risk of scalding, especially with
- 25 older shower valves, like non-compensating, like

- 1 a two-handled valve that have no kind of
- 2 automatic compensating feature whatsoever.
- 3 COMMISSIONER MCALLISTER: Well, but
- 4 that's an issue with current showerheads and also
- 5 would be with new ones, right? I mean, so that's
- 6 not a change really relative to this discussion.
- 7 MR. BERTRAND: Well, again, as we talk
- 8 about going to lower flow rates you start to
- 9 introduce an increased risk of scald hazard.
- 10 Labeling, shower valves are labeled today, not
- 11 the valve itself, but we're required to label the
- 12 packaging or include literature with the rated
- 13 flow rate. So that's been out for about three
- 14 years already.
- 15 COMMISSIONER MCALLISTER: Uh-huh, okay.
- 16 Thanks. And I guess, Sean, I want to get your
- 17 view on this definition addition that NRDC is
- 18 proposing. I saw in your presentation that you
- 19 are saying that the body sprays, etc. are already
- 20 included in our definition we consider. So
- 21 what's your sort of take on that proposed
- 22 addition?
- 23 MR. STEFFENSEN: Yeah. So the current
- 24 definition talks about a device within a shower
- 25 use for bathing. I feel through looking at the

- 1 definition that body sprayers are included, we do
- 2 find those devices in the Appliance Database, and
- 3 so Manufacturers are complying and registering
- 4 their body sprayers. But we certainly look for
- 5 any sort of clarifying language that may help to
- 6 ensure compliance.
- 7 COMMISSIONER MCALLISTER: Sure, okay.
- 8 Great. Thanks.
- 9 MS. QUINN: And then we just have one
- 10 more slide and this is just, you know, as you
- 11 move to improve the water efficiency of plumbing
- 12 products and other water using products, we've
- 13 suggested that this might be a good spot to start
- 14 for the next phase: tub spout diverters
- 15 restricting the amount of leakage allowable
- 16 there, commercial dishwashers, irrigation
- 17 controllers, and irrigation emitters. And we
- 18 will be submitting additional information on each
- 19 of these products to the Commission.
- 20 COMMISSIONER MCALLISTER: Okay, great.
- MS. QUINN: Thank you.
- 22 COMMISSIONER MCALLISTER: Thanks very
- 23 much.
- MS. DRISKELL: Next on the agenda we have
- 25 an opportunity for questions and discussion with

- 1 all of the presenters, so I'd like to invite
- 2 everybody who presented up to the table for ease
- 3 of questions and answers, and I'll begin with the
- 4 Commissioners' questions for anyone at the
- 5 tables. We'll turn to questions in the room and
- 6 then we'll turn to questions on the Web. If you
- 7 have a question on WebEx, please use the raised
- 8 hand feature and I will try to get to you, or you
- 9 may type your question into the chat box and I
- 10 will read it to the room.
- 11 COMMISSIONER MCALLISTER: Okay, great.
- 12 So let's see, this has been a good conversation
- 13 so far. I feel like I've been sort of giving you
- 14 all 20 questions, and not that I've really been
- 15 able to integrate all the answers quite yet, but
- 16 perhaps staff has, and I wanted to kind of give
- 17 staff an opportunity with everything that you've
- 18 heard, sort of what's your reaction as far as
- 19 what your next steps might be in terms of
- 20 evaluating the comments that have been made today
- 21 and incorporating them into the staff analysis.
- 22 MR. STEFFENSEN: Hi, this is Sean
- 23 Steffensen with the Energy Commission. Thank
- 24 you, Commissioners. I think there's been a very
- 25 good discussion here, a lot of good comments and

- 1 good presentations, and a lot of good questions.
- 2 I guess as I look to what I would want to know is
- 3 I think a lot of this revolves around the dates
- 4 that have been discussed and I wish I'd brought a
- 5 score card to understand who said what exactly
- 6 about which dates, whether it's January, July or
- 7 somewhere in between. And so that's one thing
- 8 that I'll be looking through in the results is to
- 9 see exactly where everyone is falling on this.
- 10 But it really does come down, I think, to
- 11 the feasibility. And so we had that very
- 12 informative discussion with PMI and their
- 13 Manufacturers back on June 9th. I'm wondering if
- 14 there's been any update from NEOPERL since June
- 15 9th as far as that could be offered today.
- MR. DESMOND: Well, Jerry here in a
- 17 recent conversation with NEOPERL, what we do know
- 18 is that the time period that PMI has been talking
- 19 about here, they are supportive of that and
- 20 believe it would work, which in the dates that I
- 21 think Joel was testifying to, or talking about,
- 22 were really a July 1, 2016 date for the 1.2 Res
- 23 Lab(lavatory) Faucets, and the 2.0 GPM
- 24 showerheads. And I know in terms of NEOPERL, we
- 25 were talking as we were sitting back there, there

- 1 aren't a whole lot of NEOPERL supplied Aerators
- 2 provided to Manufacturers or getting products
- 3 over to the retailers as we sit here today. And
- 4 the particular companies can talk about it, but
- 5 we do think that they have a workload issue.
- 6 They're committed to it, they're going to try,
- 7 they've staffed up, but I think their analysis is
- 8 the dates to get to the Manufacturers to get the
- 9 products, to get by the manufacturing date
- 10 deadline of January 1 -- I mean of July 1, 2016
- 11 is the best timeframe.
- MR. BURNETT: If I could elaborate, we're
- 13 making faucets today in the thousands. We're
- 14 currently not making any at 1.2 because we're
- 15 waiting on supply of aerators and we're still a
- 16 couple months away from that, so as you heard
- 17 from the retailers, those orders would have been
- 18 placed, we would be shipping today for sale of
- 19 product in January, so that's a pacing item for
- 20 us.
- 21 COMMISSIONER MCALLISTER: Are you
- 22 producing any 1.0s for the residential market?
- 23 MR. BURNETT: We have a very limited
- 24 offering of 1.0s, yes, we do. And they're used
- 25 mainly in the commercial setting, not in the

- 1 residential.
- 2 MR. DESMOND: Our analysis of the
- 3 database, again, I think we've talked about it in
- 4 different sessions, is that we think there are
- 5 about 16 compliant 1.2 GPM Res Lab(lavatory)
- 6 Faucets, or less. We note that the staff report
- 7 talked about 64 or so, and I know I was at the
- 8 April 8th Business Meeting where the Emergency
- 9 Regulation was adopted and there were hundreds
- 10 that were thought to be out there, and we have
- 11 found a variety, that maybe some of our members
- 12 could discuss, a number of reasons why just the
- 13 numbers that aren't in the database aren't
- 14 necessarily reflective of the certified level of
- 15 what a faucet is manufactured for.
- 16 COMMISSIONER MCALLISTER: Go ahead.
- 17 MR. STEFFENSEN: Okay, I guess my next
- 18 question would be to go for the showerheads.
- 19 What's been talked about today is looking at 2.0,
- 20 I think there's broad agreement for 2.0. Looking
- 21 ahead, though, there's been some discussion as to
- 22 1.8, and I would like to ask the question, again,
- 23 I know it's been somewhat discussed as to what
- 24 would be the challenges to implementing something
- 25 like that. I heard there's been a timeline for

- 1 1.8, whether it be two years or four years down
- 2 the line, but there's also the issue of thermal
- 3 shock and I guess what proof or what could be
- 4 offered to say that 1.8 would be an option that
- 5 could be pursued, and I could just open that up
- 6 to I guess whoever would like to jump in.
- 7 MR. SMITH: I can take one answer on
- 8 that. And that is one of the challenges is that
- 9 when the WaterSense Standard was developed, 2.0
- 10 was the maximum flow rate, and it included
- 11 performance requirements like coverage and force.
- 12 And it was designed to get good performance at
- 13 2.0. As we go down to a lower flow rate, let's
- 14 say 1.8 or 1.75, whatever that is, we need to
- 15 reevaluate what are the right performance
- 16 requirements such as coverage and flow. That
- 17 investigation hasn't been done yet at lower flow
- 18 rates at below 2.0, so to say that we can use
- 19 those same ones, I think, is jumping the gun on
- 20 that. And again, as Marc from Home Depot
- 21 referenced, we don't want to start putting out
- 22 products that draw a backlash. And when it comes
- 23 to showering, that's a prime candidate because
- 24 people really care about their showers and what
- 25 they feel like, so I think we need to proceed

- 1 cautiously as we go to lower flow rates below 2.0
- 2 because they have not yet been proven out from a
- 3 customer satisfaction standpoint.
- 4 MR. DESMOND: Sean, you talked about
- 5 thermal shocks, specifically. The compensating
- 6 valves are one of two methods, either a pressure
- 7 balance mechanism or a wax element. Those that
- 8 we manufacture and sell today were designed
- 9 around two and a half gallons per minute.
- 10 There's an operating tolerance within that two
- 11 and a half, and when you go down to 2.0, they
- 12 still operate properly; when you go below 2.0, it
- 13 causes a redesign of the mechanical aspect that
- 14 controls that. So that is a design change that
- 15 we would have to do. That complexity is
- 16 typically several months to do.
- 17 COMMISSIONER MCALLISTER: Is it that that
- 18 hasn't sort of -- it's off the radar in terms of
- 19 the testing? Or it has been tested and does not
- 20 perform?
- 21 MR. SMITH: It has been tested.
- 22 COMMISSIONER MCALLISTER: Okay, so it's
- 23 been tested down below the 2.0 and above the 2.5
- 24 just to see how it functions?
- MR. BURNETT: Yes, and we know that when

- 1 you get below 2.0, you're really going beyond the
- 2 extremes that the compensating mechanism was
- 3 designed for, so it causes for a redesign.
- 4 COMMISSIONER MCALLISTER: I wanted to
- 5 just go back briefly and talk about the aerators.
- 6 So we've been to all these meetings and NEOPERL,
- 7 as far as I know, hasn't been at the meetings,
- 8 but yet they're sort of the topic of
- 9 conversation. So maybe, you know, I would like
- 10 to understand that, or at least have staff
- 11 understand that more just to get a sense of what
- 12 their reality is. I mean, it's a little odd to
- 13 have essentially what sounds like virtually a
- 14 monopoly entity kind of not engaged in this
- 15 discussion if that's really where the critical
- 16 point is.
- 17 MR. DESMOND: We know that NEOPERL and
- 18 Fred and Marie would be pleased to engage, I
- 19 thought they already had directly with staff.
- 20 COMMISSIONER MCALLISTER: Oh, maybe they
- 21 have.
- MR. DESMOND: If they have not, I know
- 23 they would be willing to directly. They're not
- 24 saying they've got to go through us, they would
- 25 be pleased to engage directly with you and have a

- 1 one-on-one conversation.
- 2 COMMISSIONER MCALLISTER: Yeah, maybe
- 3 they had with staff already, I don't know, Sean.
- 4 MR. STEFFENSEN: The last update was June
- 5 9th and what they stated at that meeting was that
- 6 they thought they would have products at the
- 7 certification phase at this point, and they felt
- 8 that would take two to three months of pressure
- 9 to certify those, and then they would start mass
- 10 quantity shipments December, January and February
- 11 of next year. That was their last status. So I
- 12 think I do want to follow-up with NEOPERL
- 13 directly to understand their current situation.
- 14 There's been an update in the last seven weeks or
- 15 so, six weeks.
- 16 COMMISSIONER MCALLISTER: Okay, great.
- 17 So any other reactions from staff on either
- 18 faucets or showerheads?
- 19 MR. STEFFENSEN: I quess just one follow-
- 20 up. The current -- this goes back to WaterSense
- 21 and looking below 2.0. The WaterSense Standards,
- 22 as I understand it, is set up to have a maximum
- 23 of 2.0 GPM for showerheads, so I quess to say
- 24 that perhaps we need to study the consumer
- 25 acceptance below that, does that mean the

- 1 WaterSense test standard would have to be updated
- 2 with a future study? I see WaterSense
- 3 showerheads below 2.0 that are certified.
- 4 MR. SMITH: Right, or it could be that
- 5 maybe, as you did in the current CEC staff
- 6 recommendation where you didn't include the
- 7 WaterSense requirements, maybe that would be the
- 8 right answer, that those don't apply. So we can
- 9 certify below that, but it really narrows in what
- 10 exactly that showerhead needs to feel like it
- 11 really limits the options as far as the different
- 12 types of sprays that you can provide, or the
- 13 variety that the consumers could have at that
- 14 point. What I don't want to do is end up where
- 15 we go to 1.8 and everyone gets the exact same
- 16 spray, and for some people they think it's good,
- 17 and for everyone else they don't like it because
- 18 showering is very experiential and different
- 19 between genders and between ages, it's very
- 20 different between what people like.
- MS. QUINN: Sean, I would agree that we
- 22 wouldn't need to look for WaterSense to revise
- 23 their -- oh, sorry -- I agree that we wouldn't
- 24 need to look to WaterSense to revise their
- 25 testing requirements or their Standard. Not

- 1 including the WaterSense certification as a
- 2 requirement of the Standard is one option, but I
- 3 definitely think that we can move to the 1.0
- 4 without waiting for WaterSense. And as you
- 5 mentioned, there are products on the market now
- 6 below 2.0 that are WaterSense certified, so there
- 7 is that availability if the Commission chooses to
- 8 go in that direction.
- 9 MR. STEFFENSEN: I think there have been
- 10 a lot of good questions today. I think I've gone
- 11 through my list of questions and I guess I'd open
- 12 it up to Kristen to see if there are any
- 13 questions either in the room or on the phone.
- 14 COMMISSIONER MCALLISTER: Let me ask just
- 15 one more question, or maybe a suggestion to
- 16 staff, actually. When we do engage NEOPERL
- 17 directly again to get an update, maybe we can ask
- 18 about, I mean, we'll be asking them to produce a
- 19 lot of aerators in the compliance realm, 1.2, but
- 20 what is their production and potential
- 21 production, manufacturing lines, for example, for
- 22 1.0s? How many of those could they get on the
- 23 marketplace?
- MR. STEFFENSEN: The specific follow-up
- 25 with what is their production capacity -

- 1 COMMISSIONER MCALLISTER: Yeah, just sort
- 2 of see what that part of the market looks like
- 3 right now. Maybe some of the Manufacturers have
- 4 an idea of that already, but who knows, maybe
- 5 they're shipping that sort of product to other
- 6 places. I mean, I don't know. But if that's a
- 7 mature product line, then it's worth knowing.
- 8 MS. QUINN: If possible, I'd just like to
- 9 make a comment about the thermal shock that came
- 10 up earlier. An additional solution to address
- 11 those temperature shifts would be the temperature
- 12 actuated flow reduction valves, the TAFR valves,
- 13 which are ANSE and ASSE listed products. They
- 14 can protect against those spikes in temperature
- 15 and it's something that the CEC could evaluate.
- 16 There is a cost associated with those valves, but
- 17 something that the CEC could evaluate in its
- 18 cost-effectiveness evaluation.
- 19 MR. SMITH: I think one thing to keep in
- 20 mind on those, those are specifically meant for
- 21 scald issues, and so if the temperature goes too
- 22 far, it will shut the water off completely. What
- 23 they don't protect against is thermal shock, so
- 24 if the temperature moves by let's say five
- 25 degrees or six degrees, it won't shut off, and

- 1 the risk then is especially if you have elderly
- 2 or disabled, you get a slip and fall situation
- 3 where it becomes hot, they become nervous, they
- 4 slip and fall, and then if there's hot water it
- 5 can go on. So I would just caution that that
- 6 might not be the right answer for every issue
- 7 we're facing on this.
- 8 COMMISSIONER MCALLISTER: Okay.
- 9 MS. DRISKELL: Okay, we have a couple of
- 10 questions on the Web. The first is through the
- 11 Chat Box. "If the 1.8 gallon per minute for
- 12 showerheads is not adopted now for implementation
- 13 at a set timeline, whether two or four years from
- 14 now, during the Emergency Rulemaking, when will
- 15 be the next chance to implement a 1.8 gallon per
- 16 minute standard? I think that's a question for
- 17 us.
- 18 COMMISSIONER MCALLISTER: For the Energy
- 19 Commission? Go for it.
- 20 MS. DRISKELL: I will do my best. If we
- 21 don't adopt it within the Emergency Rulemaking
- 22 period, our statute typically requires us to wait
- 23 five years before changing a standard up or down.
- 24 So it would be five years from when the Standard
- 25 was adopted, if not during the Emergency period.

- 1 We also have a hand raised, so I'm going
- 2 to unmute Dann Holmes. Hopefully this works.
- 3 Dann, are you on the phone?
- 4 MR. HOLMES: Yes, I am. Can you hear me?
- 5 MS. DRISKELL: Yes, we can. Go ahead.
- 6 MR. HOLMES: Okay. Hello, everyone. My
- 7 question was in regards to I believe it was
- 8 Sarah, in her presentation she talked about
- 9 certification bodies could certify aerators
- 10 within a 30-day timeframe. And being a
- 11 certification body, I was just kind of curious on
- 12 where she might have obtained that information.
- 13 I know that we had talked to some people.
- 14 Normally 90 days would be extremely fast, but on
- 15 a rush we thought we could do something within 60
- 16 to 70 days, that's providing that all the
- 17 information that we received was technically
- 18 accurate, including literature, paper, you know,
- 19 flow rates and such. So I'm just kind of curious
- 20 on where the 30-day period came from.
- 21 MS. SCHNEIDER: Hi, Dann. Thanks for the
- 22 question. This is Sarah who presented earlier.
- 23 I'm curious, which certification body are you
- 24 with?
- MR. HOLMES: NSF International.

- 1 MS. SCHNEIDER: Thanks. So I personally
- 2 did not reach out to certification bodies, we
- 3 have a team of analysts working on this, so I am
- 4 unfortunately unable to answer that question
- 5 specifically at this moment, but I can follow-up
- 6 with you and I probably can get your contact
- 7 information from the Energy Commission. So I do
- 8 apologize, but I was not personally involved with
- 9 conducting outreach to third party certification
- 10 bodies.
- 11 MR. HOLMES: Well, that's fine, it's just
- 12 that with the timeframe that they're looking at
- 13 and, again, we're neutral in this entire thing,
- 14 obviously everyone wants to try to resolve the
- 15 water issues in California, but I'm just not so
- 16 sure that the timeline that was given on 30 days
- 17 accurately represents certification bodies as a
- 18 whole. So that's the only point I guess I'd want
- 19 to make.
- 20 MS. SCHNEIDER: Okay. Thank you for the
- 21 clarification.
- 22 MS. DRISKELL: We also have a hand raised
- 23 from Ed Osann, sorry if I've mispronounced your
- 24 name, but you're unmuted.
- MR. OSANN: Thank you. Can you hear me

- 1 all right?
- MS. DRISKELL: Yes.
- 3 MR. OSANN: Okay. Yeah, my name is Ed
- 4 Osann. I'm also with the Natural Resources
- 5 Defense Council and I just wanted to make
- 6 observations on a couple points that came up.
- 7 One is, because it did seem a little bit unclear
- 8 from the discussion, there are mixing valves with
- 9 rated flows below 2.0 that are on the market
- 10 today. There are mixing valves clustered around
- 11 with 1.5 GPM as the rated flow. So they're
- 12 available today and I think this kind of
- 13 underscores the potential value the state could
- 14 find from not only requiring the labeling of the
- 15 rated flow of mixing valves, but also the
- 16 reporting and the compilation of these models
- 17 into a publicly available database.
- 18 The other point I wanted to mention that
- 19 hasn't come up today is the potential for
- 20 variable orifice showerheads to really be a key
- 21 enabling technology for showerheads flowing at or
- 22 below two gallons per minute. A variable orifice
- 23 showerhead has, in effect, a pressure
- 24 compensating restrictor so that it's designed to
- 25 maintain the flow at or close to the stated

- 1 maximum across the full range of likely water
- 2 pressures that would be encountered in a
- 3 residential or commercial installation. And this
- 4 has the effect of really bolstering consumer and
- 5 customer acceptance because a customer that has a
- 6 low pressure location is not likely to see their
- 7 performance drop by 30 or 40 percent as might be
- 8 the case in a fixed orifice showerhead, and also
- 9 this tends to mitigate the issue of temperature
- 10 spikes because it's maintaining that higher level
- 11 of flow across the full range of pressure that
- 12 would be encountered at various locations. I
- 13 just wanted to make a couple of those points.
- 14 COMMISSIONER MCALLISTER: Thanks.
- MS. DRISKELL: That's it on the phone.
- 16 Are there any additional public comments in the
- 17 room, or questions and discussion in the room?
- 18 Go ahead.
- MS. WILLIAMS: I just wanted to ask, what
- 20 is the Energy Commission's procedure from this
- 21 point forward? Just curious as to your timetable
- 22 under consideration. In terms of making the
- 23 amendments, is there, regardless of what you
- 24 decide on, is there a timeframe by which you
- 25 intend to act?

- 1 CHAIRMAN WEISENMILLER: Well, we'd like
- 2 to act by the next Business Meeting which is
- 3 August 12th.
- 4 MS. WILLIAMS: Got it. Thank you.
- 5 MS. DRISKELL: We have a couple more
- 6 phone comments. From the chat box: "Has there
- 7 been any thought about requiring Laminar flow on
- 8 bath faucets? The .5 gallon per minute spray
- 9 aerators are horrible."
- 10 COMMISSIONER MCALLISTER: Who is that
- 11 question to? It sounds like that's more --
- 12 MR. SMITH: Yeah, I'm not sure who it was
- 13 to. The .5 GPM spray is horrible, don't
- 14 disagree, it's the regulation, and I don't think
- 15 anyone really likes the feeling when the water
- 16 trickles out in a commercial bathroom. There is
- 17 a laminar spray and it's, to be honest with you,
- 18 it's not a lot better, it's still a very small --
- 19 I wouldn't say it's that much better. So
- 20 unfortunately when you get down to that flow
- 21 rate, it's hard to make a spray really feel
- 22 great.
- 23 MS. DRISKELL: We also have a hand raise,
- 24 so I'll unmute George.
- MR. NESBITT: Yes, can you hear me?

- 1 MS. DRISKELL: Yes, we can.
- MR. NESBITT: Yeah, I guess, well, most
- 3 bath faucets and, well, faucets in the past have
- 4 had screw-in, screw-out aerators. It sounds like
- 5 some of the new fixtures, they maybe still have
- 6 them, but they're more recessed, or are the
- 7 Manufacturers going to essentially have a built-
- 8 in aerator that is part of the spout? I guess
- 9 that's sort of, you know, certainly -- I'm a HERS
- 10 Rater, or Green Rater contractor, and as a Green
- 11 Rater, if we're verifying flow for a fixture if
- 12 it has an aerator that's labeled for that flow
- 13 requirement, even if the fixture is not rated and
- 14 certified at that, that's perfectly acceptable.
- 15 COMMISSIONER MCALLISTER: Thanks. So we
- 16 have not gotten any blue cards up here. Is there
- 17 anybody in the audience? Is there anybody else
- 18 on the phone or Web? Anybody in the audience
- 19 inclined to ask a question or need any
- 20 clarification?
- 21 So anything else on the agenda for us,
- 22 Kristen?
- 23 MS. DRISKELL: That's it. That was part
- 24 of the public comment period, I think, it just
- 25 kind of blended together. So if the

- 1 Commissioners would like to deliver any closing
- 2 remarks oh, I take it back, there is a blue
- 3 card.
- 4 COMMISSIONER MCALLISTER: Oh, hey, okay.
- 5 Great.
- 6 MS. DRISKELL: This is Bach Tsan from
- 7 Southern California Edison.
- 8 MR. TSAN: Good afternoon. I'm Bach
- 9 Tsan, an Engineer from Southern California
- 10 Edison. First of all, I'd like to thank the CEC,
- 11 Chairman Weisenmiller and Commissioner
- 12 McAllister, for your strong leadership and
- 13 responding to California's severe drought that we
- 14 have been experiencing for four consecutive
- 15 years. As a partial means to address the severe
- 16 drought, SCE is part of the California IOUs, or
- 17 Investor Owned Utilities, to submit a case report
- 18 proposing a maximum level for flow rate for
- 19 shower heads. Our proposed limit for shower
- 20 heads is well aligned and harmonizes with
- 21 WaterSense, California Plumbing Code, 2013
- 22 CALGreen, and the City of Los Angeles Water
- 23 Regulations. The proposed limit not only saves
- 24 water every time someone takes a shower, but it
- 25 also saves energy transporting water to homes,

- 1 reduces water heating needs. This proposal
- 2 demonstrates another example of California's
- 3 leadership in environmental stewardship.
- 4 SCE is part of the California IOU Codes
- 5 and Standards Program and fully supports the
- 6 CEC's proposed limit of two gallons per minute,
- 7 and would like to suggest the Commission consider
- 8 these Standards improvements as presented by the
- 9 Energy Solutions teams for the IOU.
- 10 We also like to confirm our support for
- 11 the CEC and their proposed revision on faucets.
- 12 Faucets are the third largest use of residential
- 13 water use, reducing the amount of water for use
- 14 from faucets is key to California's water
- 15 reduction strategy.
- 16 SCE, along with the Statewide Utility
- 17 Codes and Standards Team supports this
- 18 recommendation as California is in the midst of
- 19 this severe drought as we stated. In response to
- 20 the California Energy Commission participating in
- 21 2013, we submitted a proposal for faucets which
- 22 proposed a maximum for this product. SCE, we
- 23 fully support the CEC's proposed limit of 1.2
- 24 gallons per minute flow rate for residential
- 25 lavatory faucets to be effective January 1, 2016,

- 1 and we encourage the CEC to review the docketed
- 2 IOU response for faucets. Once again, thank you
- 3 very much for this opportunity to show the
- 4 support for showerheads and faucets. Thank you.
- 5 COMMISSIONER MCALLISTER: Thanks for
- 6 being here. I saw one more question there.
- 7 MS. DRISKELL: You were right, we have
- 8 another question on the chat. "Was consideration
- 9 given to requiring technology that allows users
- 10 to temporarily stop flow while soaping up?
- 11 COMMISSIONER MCALLISTER: Right now
- 12 that's in the moral upper ground category, I
- 13 think. I have one on my shower, you know,
- 14 certainly. But what about staff requiring it?
- MR. STEFFENSEN: No, we have not
- 16 considered that. I think that goes along with
- 17 some of the thermal shock concern that perhaps
- 18 the temperature could change, but that wasn't a
- 19 part of what we were considering for this near
- 20 term.
- 21 COMMISSIONER MCALLISTER: Manufacturers,
- 22 do you have any sort of sense of the marketplace
- 23 for those in terms of voluntary purchase of those
- 24 and installation?
- MR. SMITH: They are pretty widely

- 1 available because, for ADA requirements, there
- 2 has to be what we call a trickle or pause feature
- 3 where it actually takes the flow down to roughly
- 4 .5 GPM. And so what that does is it allows
- 5 enough water to keep running, that you don't
- 6 build up a lot of cross flow where there's a big
- 7 slug of hot water waiting in the cold line to
- 8 burn you, but it does reduce the water flow
- 9 significantly so that if you want to save water
- 10 that way, you can. So I think they're already
- 11 out there. I don't know that they are on many
- 12 shower heads, it's usually just hand showers, but
- 13 because it's ADA, it's for an assisted bathing
- 14 application. So they're out there for people who
- 15 want them, I don't know that they're the right
- 16 fit for every application.
- 17 COMMISSIONER MCALLISTER: Okay, thanks
- 18 for your questions, everybody. I think we've
- 19 reached the end of the agenda a little bit ahead
- 20 of time, which is incredible. Did you want to
- 21 say something, Chair Weisenmiller?
- 22 CHAIRMAN WEISENMILLER: Yeah, I was going
- 23 to make two observations and question just to pin
- 24 down some of the logistics. One was I was going
- 25 to note that, you know, 1978 was when Governor

- 1 Brown was Governor the first time, and that's
- 2 when we did the first Standards in this area
- 3 which right now in the middle of the drought, you
- 4 know, I think it's really helped having those in
- 5 place, particularly for that period of time, was
- 6 that when we adopted those Standards the first
- 7 time, there were more like 20, 22 million people
- 8 in California, now we have much more, so you
- 9 could imagine how much tougher the drought would
- 10 have been if we hadn't taken action then. So
- 11 again, I think going forward it's going to be
- 12 really important to really push along the
- 13 technology because I'm afraid we're going to have
- 14 more droughts in the future, and we're going to
- 15 be well prepared for that.
- 16 There was some reference to El Niño and
- 17 how that may change things and I was just going
- 18 to point people to yesterday, we had a joint
- 19 proceeding with the PUC on adaptation, or
- 20 resilience. And at that, we had a presentation
- 21 by Dan Kahan who is one of the Scripps
- 22 Scientists, and he talked about El Niño, but
- 23 basically again that was one of those things of
- 24 saying it looks really strong now, however, that
- 25 was the story going into this year, so certainly

- 1 it's not time to assume that the drought is going
- 2 behind us, but we have to be planning for worst
- 3 case next year, otherwise I think, again, I loved
- 4 hearing Felicia Marcus and she was saying the 25
- 5 percent isn't really to move water from one group
- 6 in the state to another, but it's so that next
- 7 year we don't have to cut off all cities. You
- 8 know, it's basically those cities are saving
- 9 water that we may need next year.
- 10 The thing I was just trying to understand
- 11 logistically, as I said, we have Business
- 12 Meetings, we have one on August 12th, we will
- 13 have one in September, we'd obviously like to
- 14 move on this and give everyone an opportunity for
- 15 people to provide public comment to us, or
- 16 written comments to us, and to try to move this
- 17 on to the Agenda hopefully August, or I guess it
- 18 was September.
- 19 But one thing I want to understand is, in
- 20 terms of the showerhead proposal, when that will
- 21 be filed in terms of all the documents by the
- 22 utility group, and then how much time industry
- 23 will need to review that, if any. So we're
- 24 talking about, again, to comment basically
- 25 written -- when do we get the work papers?

- 1 MR. SMITH: I think one item on that
- 2 topic is, and we didn't bring it up today because
- 3 we feel like it's a little bit down in the
- 4 details, but we are going to submit comments
- 5 because there's just some things in the proposal
- 6 where reference numbers of procedural sections
- 7 don't line up, so we do need a little time just
- 8 to work out some of those details. We told you
- 9 clearly our feeling on the overall intent, but we
- $10\,$ do need to work through some of the things so
- 11 that everything is accurate and tight when the
- 12 new regulation gets issued. So I think that
- 13 would be a matter of a week, you know, once we
- 14 see the final one.
- 15 CHAIRMAN WEISENMILLER: Okay, and if
- 16 necessary, I guess I would encourage the staff
- 17 and PMI to have a settlement conference or some
- 18 way of discussing where, if there's anything we
- 19 need to pin down, just to make sure it occurs
- 20 before the Business Meeting.
- MR. DESMOND: We know that there's the
- 22 comment deadline at 4:00 p.m. this Friday which
- 23 is a little tough to meet, but we're endeavoring
- 24 to meet that and to have a comprehensive
- 25 submittal by that point that's consistent with

- 1 what we've said today and responsive to all
- 2 issues, it's a fairly compressed timeframe with
- 3 the proposal just having come out late Friday
- 4 afternoon, but we're endeavoring to do that and
- 5 to move very rapidly. I don't know if we'll be
- 6 able to address every single issue, but we're
- 7 bending over backwards to do so.
- 8 CHAIRMAN WEISENMILLER: Okay. Well, I
- 9 just wanted to make sure, too, in terms of any
- 10 other material that goes in the record, if we
- 11 need reply comments so we build those in, too,
- 12 but again very fast.
- 13 COMMISSIONER MCALLISTER: So there are
- 14 really three sort of general proposals out there
- 15 it seems like, one is from the Case Teams at the
- 16 IOUs, the one on the table right now is from
- 17 staff, right, and so we have sort of the IOU and
- 18 then the industry proposal, and those are kind of
- 19 elements of each of those we're talking about
- 20 today, so kind of pinning down the final proposal
- 21 from staff that we would take to a Business
- 22 Meeting is imperative.
- 23 Okay, great. Well, you know, I don't
- 24 have extensive further comments. I think it's
- 25 been really productive. I really thank everybody

1	for keeping your comments to the point and
2	relatively parsimonious and informational. I
3	think it's been really great, so I think we've
4	had a very substantive conversation today,
5	really, not a lot of extraneous details and
6	mostly substance, so I really appreciate that.
7	Very much appreciate everybody bringing their
8	good faith effort in the context of the drought
9	and what we're trying to do and I think we all
10	agree on that, on its importance. So a lot of
11	reasons to keep our sleeves rolled up and working
12	hard to get this to the finish line and, like the
13	Chair said, we're looking to do that as quickly
14	as possible. And I'm sure we will all be in
15	touch for sure, and as we dialogue on it and get
16	to the finish line here. So thanks.
17	CHAIRMAN WEISENMILLER: Thanks.
18	
19	(Whereupon, at 2:58 p.m., the workshop was
20	adjourned.)
21	000
22	
23	
24	
25	

REPORTER'S CERTIFICATE

I do hereby certify that the testimony in the foregoing hearing was taken at the time and

place therein stated; that the testimony of said witnesses were reported by me, a certified electronic court reporter and a disinterested person, and was under my supervision thereafter transcribed into typewriting.

And I further certify that I am not of counsel or attorney for either or any of the parties to said hearing nor in any way interested in the outcome of the cause named in said caption.

IN WITNESS WHEREOF, I have hereunto set my hand this 6th day of August, 2015.



PETER PETTY CER**D-493 Notary Public

TRANSCRIBER'S CERTIFICATE

I do hereby certify that the testimony in the foregoing hearing was taken at the time and place therein stated; that the testimony of said witnesses were transcribed by me, a certified transcriber and a disinterested person, and was under my supervision thereafter transcribed into typewriting.

And I further certify that I am not of counsel or attorney for either or any of the parties to said hearing nor in any way interested in the outcome of the cause named in said caption.

IN WITNESS WHEREOF, I have hereunto set my hand this 6th day of August, 2015.

Karen Cutler Certified Transcriber AAERT No. CET**D-723