DOCKETED

Docket Number:	15-AAER-02	
Project Title:	Pool Pumps and Spa Labeling	
TN #:	210389	
Document Title:	Portable Electric Spas California Investor Owned Utilities Staff Workshop Slides	
Description:	N/A	
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Organization:	California Investor Owned Utilities	
Submitter Role:	Public	
Submission Date:	2/17/2016 4:35:59 PM	
Docketed Date:	2/17/2016	

Portable Electric Spas

CEC Staff Workshop

Developed by Energy Solutions On behalf of the California IOUs

February 18th, 2016



IOU Involvement in Spa Energy Efficiency

- IOUs propose CASE study for portable electric spas
- 2006 Performance standard for standby power takes effect
- Cal Poly study of portable electric spas verifies savings
- Current rulemaking begins, CEC asks for labeling proposal

Current Title 20 Portable Electric Spa Standards

Portable Electric Spas. The normalized standby power, as defined in Section 1604(g)(2)(I), of portable electric spas manufactured on or after January 1, 2006, shall be not greater than 5(V2/3) watts where V = the fill volume, in gallons.

IOU Involvement in Current Rulemaking

- July 29th, 2013: IOUs submit labeling proposal to CEC
- January 2015: CEC Public Meeting, asks for standards proposal in addition to labeling
- April/ May 2014: IOUs engage with APSP-14 to negotiate label and updated standards level
- May 15th, 2014: IOUs submits a CASE report to CEC reflecting industry consensus
- September 12, 2014: APSP-14 creates their new standard "ANSI/APSP/ICC-14 2014" reflecting IOU/ industry consensus

IOUs Support CEC Staff Proposal

- IOUs support the CEC staff proposal and believe the proposed standards are <u>cost-effective</u>, <u>achievable</u> and will lead to <u>significant savings statewide</u>. (~140 GWh)
- The CEC Staff proposal makes three important changes to the current Title 20 standards including:
- 1. Clarification of the definition of portable electric spas
- 2. An updated portable electric spa standby standard
- 3. Requiring a labels on all portable electric spa

Definition of a Portable Electric Spa

Current T20 Definition:

"Portable electric spa" means a factory-built electric spa or hot tub, supplied with equipment for heating and circulating water.

CEC Staff has proposed the following definitions that clarify that inflatable and exercise spas are included.

"Portable electric spa" means a factory-built and free-standing electric spa or hot tub, supplied with equipment capable of for heating and circulating the water inside a rigid, flexible, or inflatable shell.

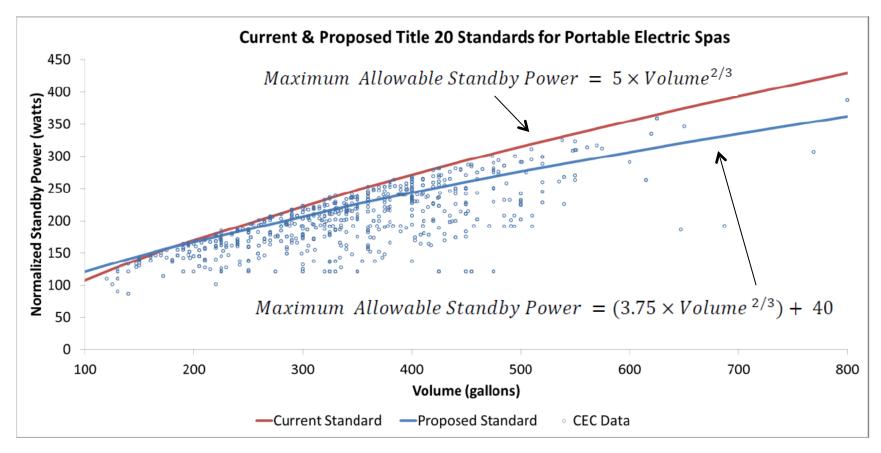
"Combination spa" means a portable electric spa with separate bodies of water capable of heating each body of water at different temperatures.

<u>"Exercise spa" (also known as an "endless pool" or "swim spa")</u> means a portable electric spa designed to produce a water flow intended for water therapy or fitness training, including swimming in place.

Strengthening Standby Standards

IOUs support CEC's adoption of the APSP-14-2014 maximum allowable standby standard.

Updating standard will yield a market weighted savings of 8% & eliminate 28% of spas in CEC database



IOUs Originally Proposed Two Labels Designs

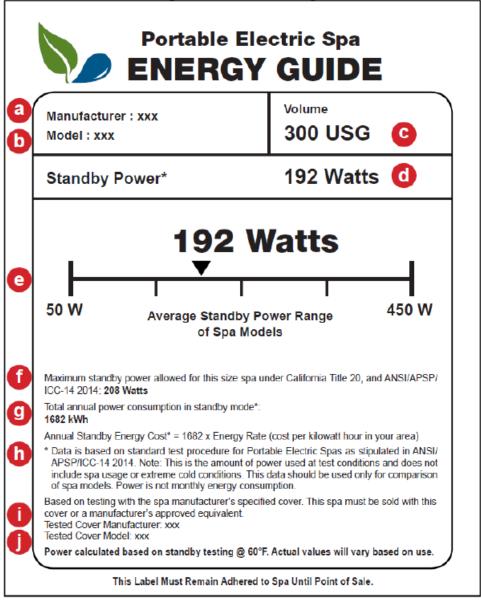
Electric Spa Energy Guide				
Make: XXX	Model: XXX	Volume: 300 gallons		
Standby Pov	wer*	150 watts		
Maximum A	llowable Standby	Power 224 watts		
Yearly Standby Energy Costs \$210 Based on year-round operation and 16 ¢/ kWh				
Performance compared to CA Spa Standards				
CA 2006 Standard	25% 50%	Most Efficient>		
33%				
This spa uses 33% less standby energy than required by California's Title 20 Appliance Standards				
*For non-swim spas,Standby Power refers to the power consumed while spa is not in use (cover is on), heated to 100F and the jets, lights, audio etc. are off. For more information see <u>http://www.energy.ca.gov/appliances/</u>				
This Label Must Remain Adhered to Spa Until Point of Sale.				

Electric Spa Energy Guide				
Make: XXX Model: XXX Volu	ume: 300 gallons			
Standby Power*	150 watts			
Maximum Allowable Standby Power	224 watts			
Yearly Standby Energy Costs \$210 Based on year-round operation and 16 ¢/ kWh				
Energy Efficiency Performance				
$\star \star \star \star \checkmark$				
This spa uses 33% less standby energy than required by California's Title 20 Appliance Standards				
*For non-swim spas, Standby Power refers to the power consumed while spa is not in use (cover is on), heated to 100F and the jets, lights, audio etc. are off. For more information see <u>http://www.energy.ca.gov/appliances/</u>				
This Label Must Remain Adhered to Spa Until Point of Sale.				

Figure 24: Label Design

Spa Label

- CEC staff proposed to adopt APSP/ IOU consensus label.
- IOUs support this label design and concept as it will provide valuable information to consumers.



Suggestions for Improvement

The IOUs broadly support the staff proposal, although recommend to increase clarity including:

- Require that portable electric spas are sold with the cover in which they are tested.
- Clarify the exception to APSP-14-2014 is supposed to be 6.3.1, not 6.3.
- Developing a separate scale of energy consumption for exercise spas
- Clarifying how "combination spas" are reference in the standard