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Filer:	Sean Steffensen
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Portable Electric Spas

CEC Staff Workshop

Developed by Energy Solutions on behalf of the California IOUs

July 13th, 2016







IOU Involvement in Spa Energy Efficiency

- 2004- IOUs propose CASE study for portable electric spas
- 2006- Performance standard for standby power takes effect
- 2008- Cal Poly study of portable electric spas verifies savings
- 2012 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 2015th 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
- February 18th, 2016- IOUs participated in CEC Staff workshop and submitted comments

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>. (~160 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 spas

Definition of a Portable Electric Spa

Current T20 Definition:

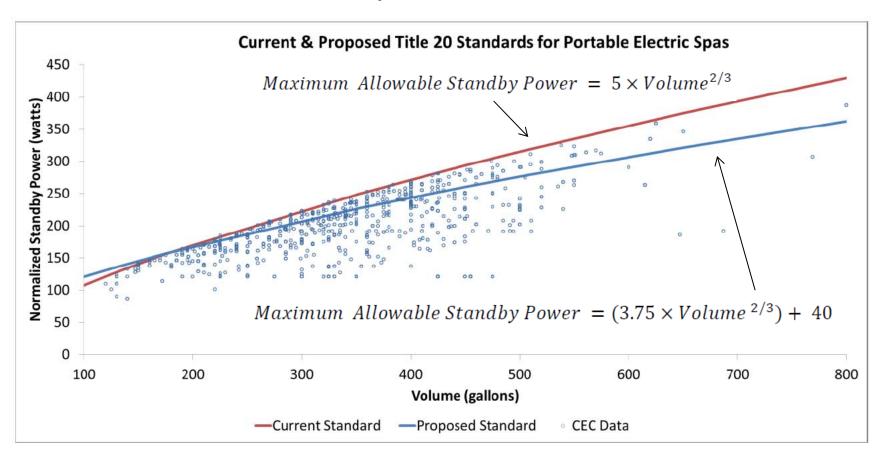
"Portable electric spa" means a factory-built electric spa or hot tub, supplied with equipment for heating and circulating water.

CEC Staff has clarified that this definition covers traditional, storable, exercise, and combination above-ground spas.

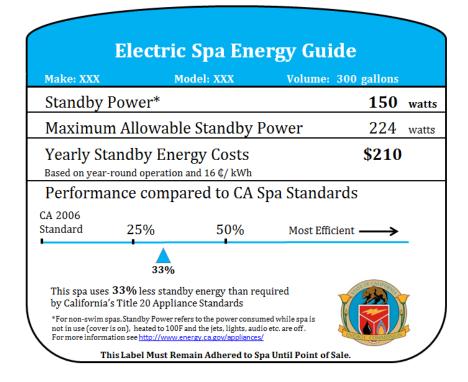
Strengthening Standby Standards

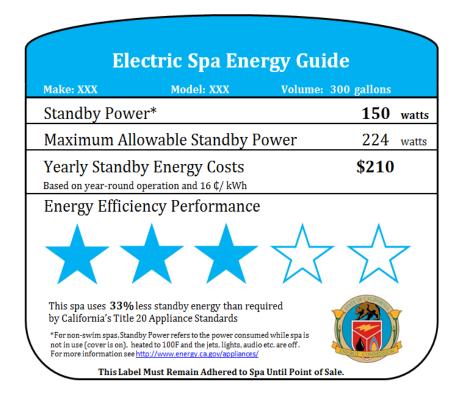
IOUs support CEC's adoption of the APSP-14-2014 maximum allowable standby standard.

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



IOUs Originally Proposed Two Labels Designs

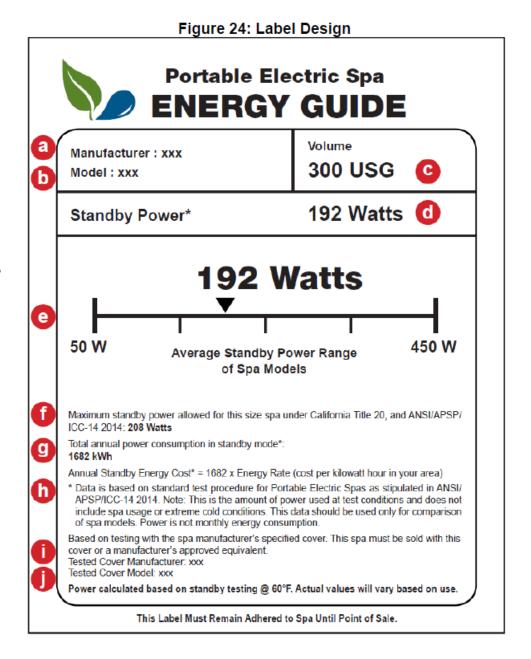




Spa Label

CEC staff proposed to adopt APSP/ IOU consensus label.

IOUs broadly support this label design and concept as it will provide valuable information to consumers.



Source: ANSI/APSP-2014

Suggestions for Improvement

The IOUs broadly support the staff proposal, but will make recommendations to improve the proposal:

- We support the upper limit of the label to represent a different fixed value for each category of portable, exercise and combo spas as opposed to maximum allowable standby level.
- We support combination spas having just one label and that they be tested as specified in APSP-14-2014.