

DOCKETED

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Description:	By California Investor Owned Utilities (PG&E, SCE, SDGE, and SoCal Gas), Developed by Energy Solutions on behalf of the California IOUs for the March 6, 2018 Lead Commissioner Meeting on Appliance Efficiency Regulations for Portable Electric Spas and Battery Charger Systems
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Portable Electric Spas

CEC Staff Workshop

March 6, 2018

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March 6, 2018



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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

IOU Involvement in Current Rulemaking

July 29, 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 15, 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 18, 2016- IOUs participated in CEC Staff workshop and submitted comments

July 13, 2016- IOUs participated in CEC Staff workshop and submitted comments

August 3, 2017- 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 cost-effective, achievable and will lead to significant savings statewide. (~242 GWh after stock turnover)

IOUs support the June 1, 2019 effective date.

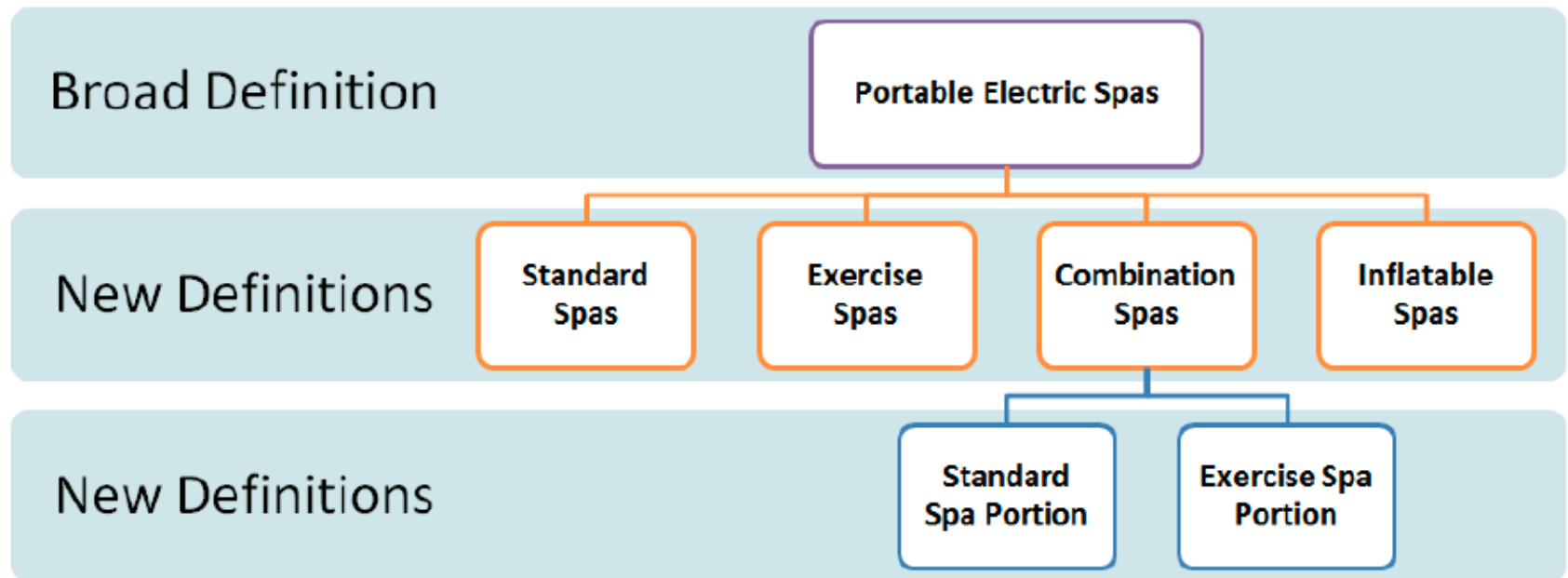
The CEC Staff proposal makes numerous important changes to the current Title 20 standards including:

1. Clarification of the scope/ definition of portable electric spas
2. An updated portable electric spa standby standard, and new standard for inflatable spas
3. Requiring a labels on all portable electric spas
4. Modifies and adds new reporting requirements

Definition & Scope of a Portable Electric Spa

IOUs support CEC's modified definitions and new scope clarification to ensure coverage of standard, exercise, combination and inflatable spas.

Figure 6-1: Scope Clarification Chart



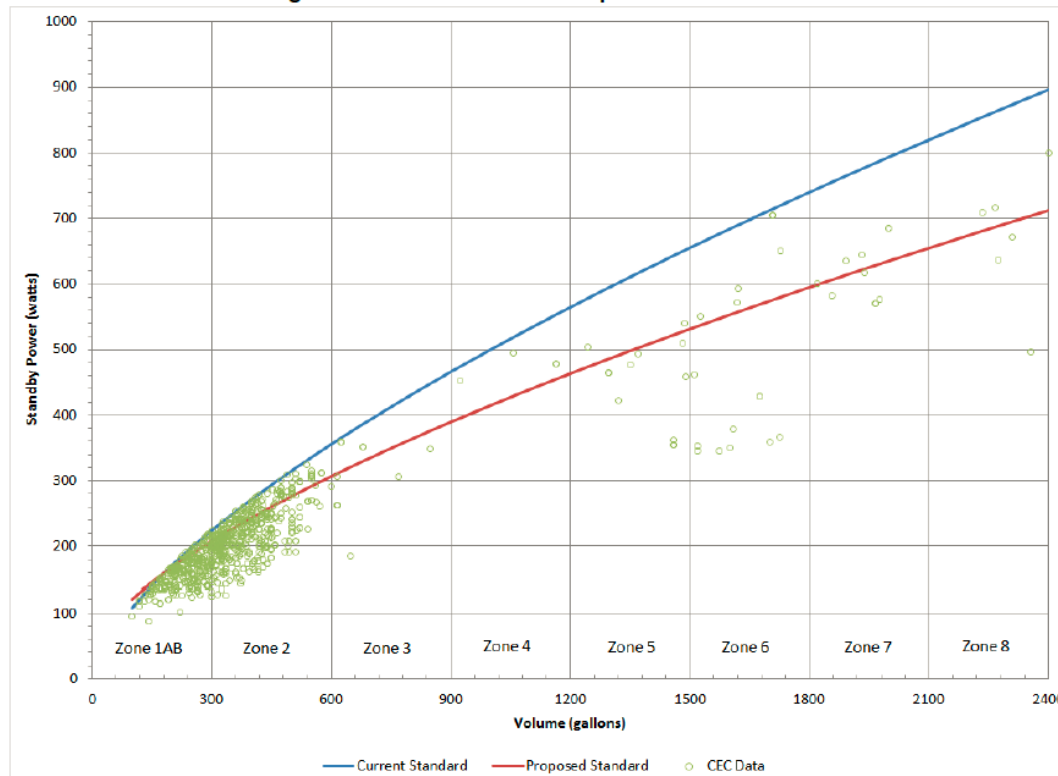
Source: Energy Commission staff

Strengthening Standby Standards

IOUs support CEC's adoption of the APSP-14-2014 maximum allowable standby standard, with modifications for exercise/combination spas.

More than 75% of models in the CEC database will meet the proposed standard

Figure 7-1: Portable Electric Spas in the MAEDBS

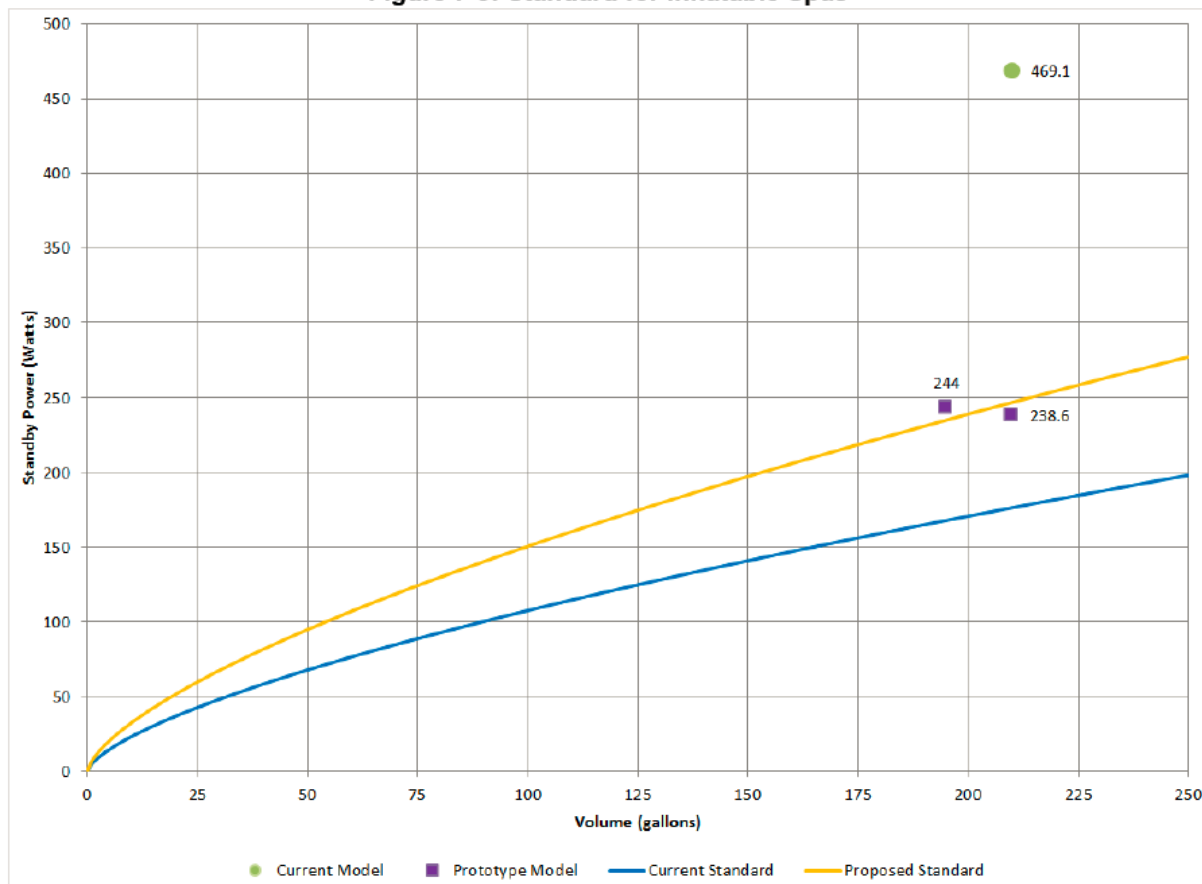


Source: MAEDBS, California Energy Commission

New Inflatable Spa Standard Level

IOUs understand the utility provided by inflatable spas and commend CEC and manufacturers for working to find an achievable level.

Figure 7-3: Standard for Inflatable Spas



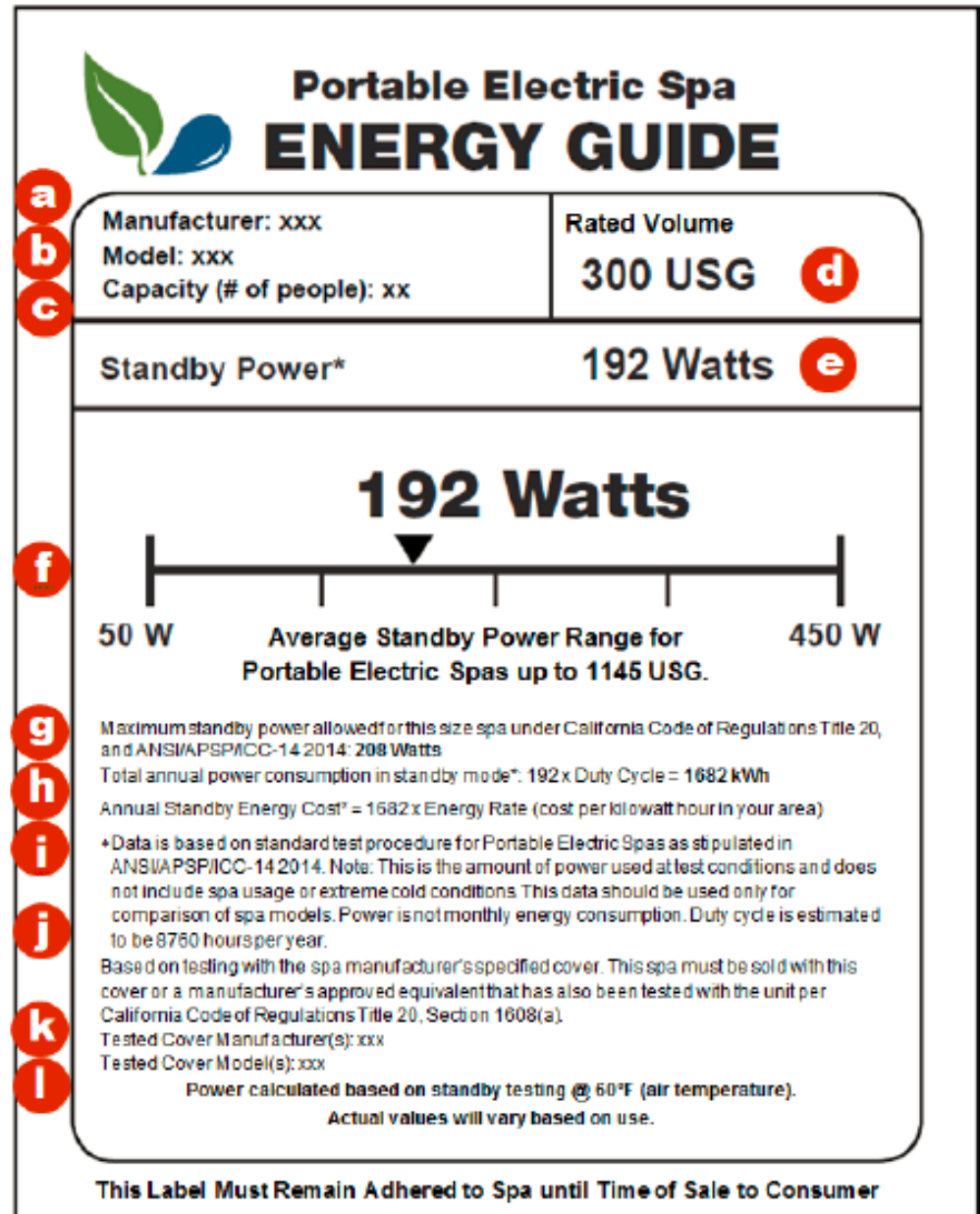
Source: Docketed Inflatable Spa Test Lab Reports^{123,124,125}

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.

Figure 14-1: Label Design



Label: Suggestions for Improvement

Consider spelling out “USG” to US Gallons

Rated Volume
300 USG

Remove references to plural (s) spa covers

~~Tested Cover Manufacturer(s): xxx~~
~~Tested Cover Model(s): xxx~~

Power calculated based on standby testing @ 60°F (air temperature).
Actual values will vary based on use.

For standard, exercise, and combination spas, require label on the shell, 6 inches from top, not on the “skirt”



Require label on the box for inflatable spas



Reporting Requirements

IOUs commend CEC on adding new definitions and reporting requirements such as “fill volume” and “rated volume”

Suggest consider adding minimum and maximum water temperature settings to Table X, as they are already proposed to be collected in the test report.