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Spray Sprinkler Bodies

California Energy Commission Staff Title 20 Workshop

March 14, 2018

Developed by Energy Solutions
on behalf of the California IOUs



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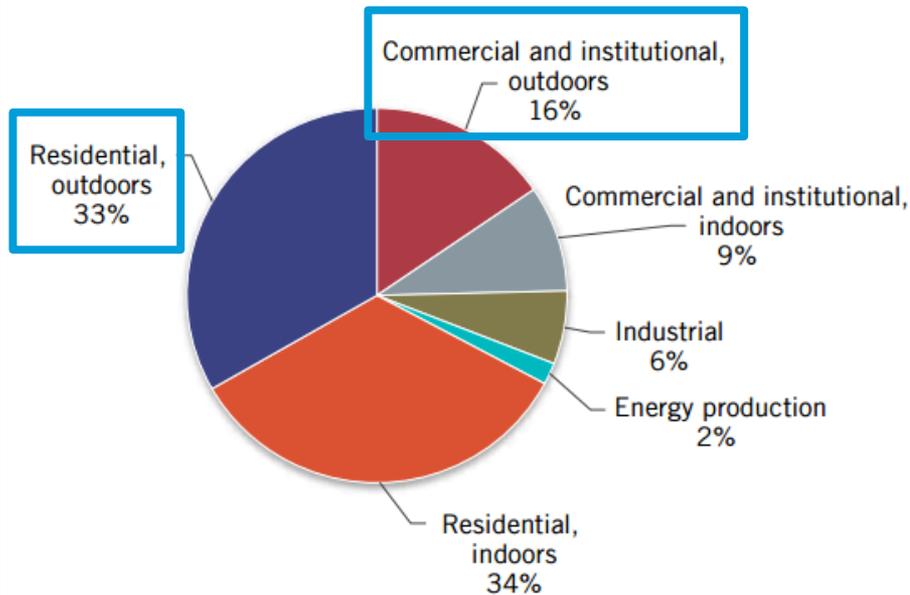


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Why is the Spray Sprinkler Body Title 20 Standard a Priority?

LANDSCAPING ACCOUNTS FOR ROUGHLY HALF OF CALIFORNIA'S URBAN WATER USE



Total Urban Water Use in California, 2006-2010
(8.5 million acre-feet)

Source: Public Policy Institute of California 2015

- Climate change and the increasing risk of severe droughts raise concerns about water supply sustainability
- Water security is critical, making water efficiency a well-established state policy goal
- Standards can overcome a lack of consumer education and historical supplier stocking practices
- Water savings of over **80 billion gallons/year** and embedded energy savings of over **290 GWh/year** are expected at full deployment of the proposed standard

IOU CASE Team Involvement in Title 20 Process for Spray Sprinkler Bodies

Late 2015 – IOU CASE Team began technical research and stakeholder engagement in response to the drought emergency

June 6, 2017 – IOU CASE Team provided information on model codes, product descriptions, market analysis, water and energy usage, and test methods in response to Energy Commission Invitation to Participate (ITP)

July 20, 2017 – IOU CASE Team attended ITP workshop and supported developing a Title 20 standard

September 18, 2017 – IOU CASE Report outlines proposed standard, water and energy savings, cost-effectiveness, stakeholder consultations, and test procedures

IOUs Support the Staff Proposal

- Benefits would exceed costs by a ratio of 4:1, using very conservative assumptions
- Proposed effective date of January 1, 2020 is reasonable given that qualifying products are available now
- The IOUs will provide written comments on suggested language clarifications



Note: Images show example spray sprinkler bodies that are labeled as pressure regulating. The CASE Team has not independently evaluated these claims.

Test Methods

The IOU CASE Team agrees with the Energy Commission proposal to:

- A) require testing of products at 1.5 gpm for compliance purposes, and
 - B) require testing of products at 0.75 gpm for informational purposes.
- The 0.75 gpm flow rate may be more representative of some multistream, multitrajectory nozzles as well as traditional nozzles covering a relatively small irrigated area
 - U.S. EPA set the WaterSense® performance test flow rate at 1.5 gpm and requested any available information regarding product performance at 0.75 gpm, but did not receive this information

Future Considerations

Setting a standard for pressure regulated spray sprinkler bodies will set a precedent that the Energy Commission could expand upon with future standards, such as for:

- Additional spray sprinkler body features, such as check valves
- Landscape irrigation controllers
(currently under review by the Energy Commission)
- Sprinkler nozzle distribution efficiency
- Other landscape irrigation emission devices