



This is a one of a kind 4,000,000 Gallon welded steel Standpipe that operates as a 140' tall thermal energy storage (TES) tank built for the State of California's Central Utility Plant in Sacramento.

The tank stores reserves of chilled water that is economically produced during off-peak energy times to cool the Capitol and 22 other state office buildings occupied by 20,000 state employees during the heat of the day.

Rather than trying to hide the tank – which is impossible – the design embellishes it to make it an attractive architectural landmark by:

- Wrapping the tank in double thick insulation board and covering it with blue and white metal insulation jacket designed to give the appearance of water sparkling to the top of the tank. The insulation reduces heat gain to less than 1 percent over a 24 hour period.
- Adding a unique “splash crown” structure at the top of the tank representing a splash, just like a high speed photo of a water drop splash. This was further enhanced by coating it with an aluminum pigmented paint providing a metallic appearance.
- Building a futuristic looking steel space frame with a reflective, metallic appearance around the exterior of the tank.
- Adding lighting to enhance and show off the structure at night.

This tank design includes high seismic conditions and promotes and demonstrates the flexibility and aesthetics of steel designed structures.

The tank will pay for itself thru energy savings and will serve as a landmark for the community for a long, long time.