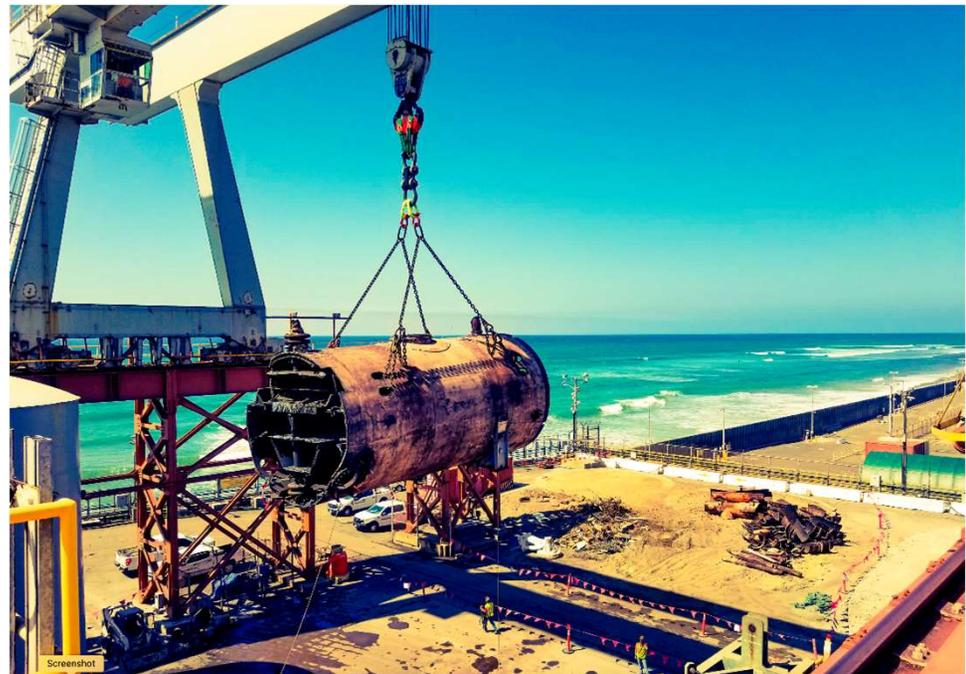


# SONGS Decommissioning Project

**Manuel Camargo**  
*Principal Manager  
Strategic Planning  
Southern California Edison*

15 March 2023



Safety | Stewardship | Engagement



# Goal & Principles

*Complete decommissioning in a safe, timely, transparent, & cost-efficient manner while maintaining high standards of environmental protection*

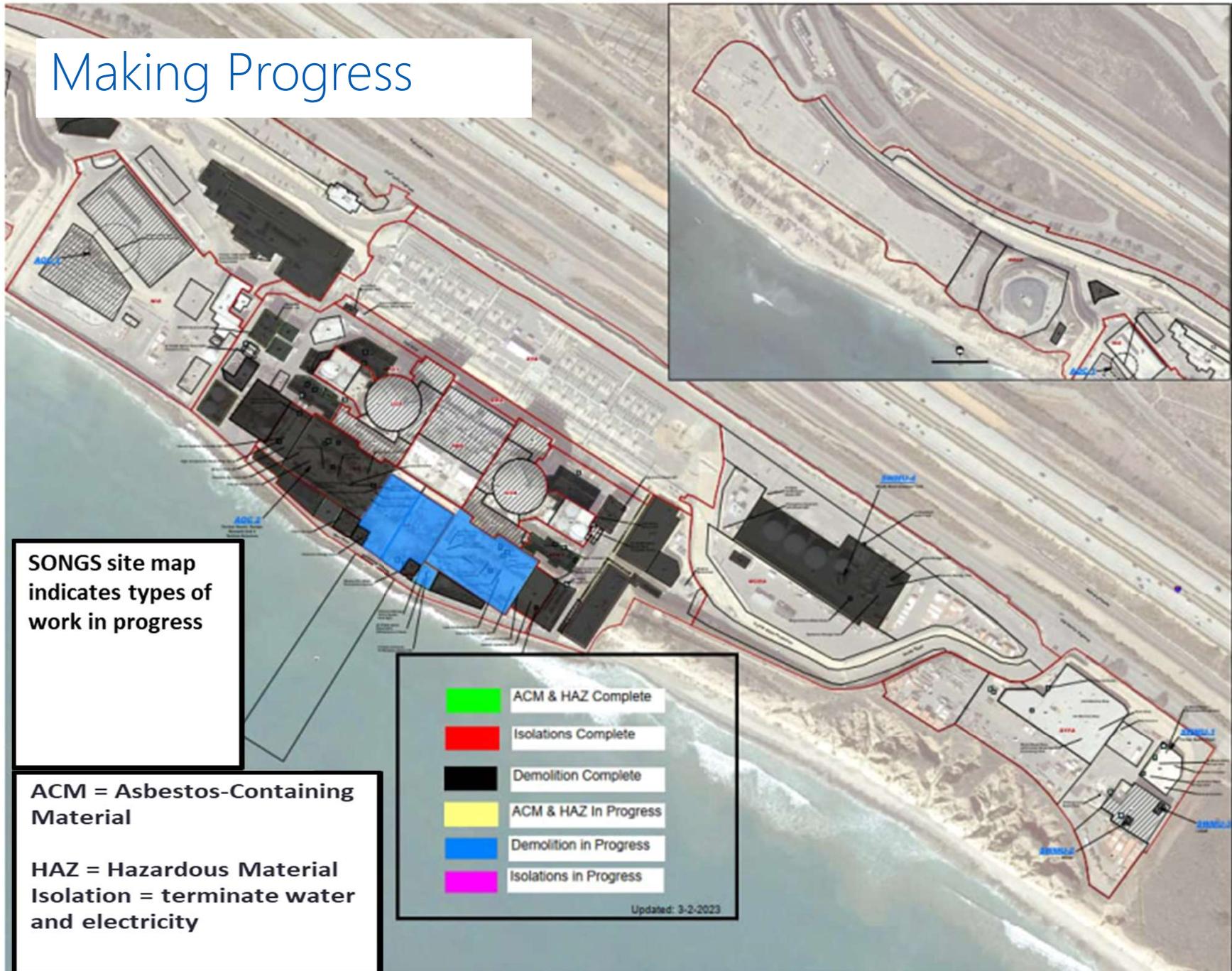


# San Onofre Plant History

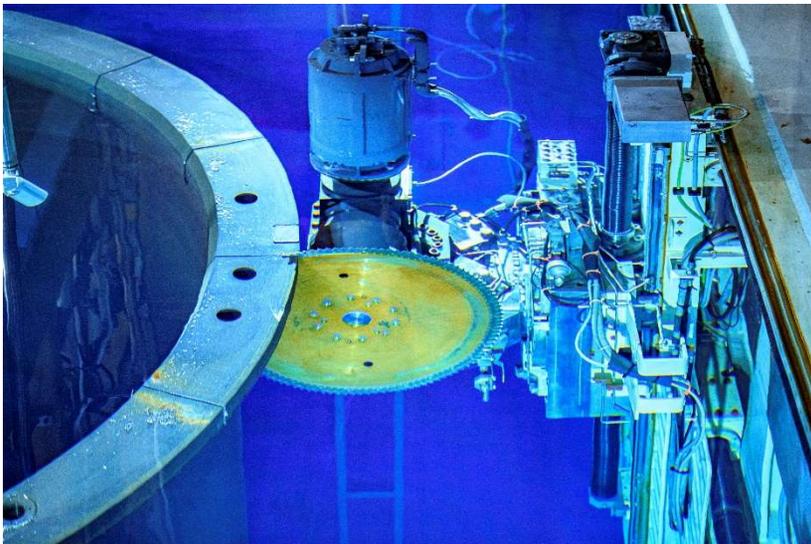
- **Unit 1**
  - Online January 1968
  - Retired 1992, partially decommissioned
- **Units 2 and 3**
  - Online November 1983, April 1984
  - Retired June 7, 2013
- **Spent Fuel Storage**
  - Over 50 years
  - Dry Cask Storage since 2003



# Making Progress



# Inside Containment Domes



# Post-Decommissioning

Switchyard

ISFSI

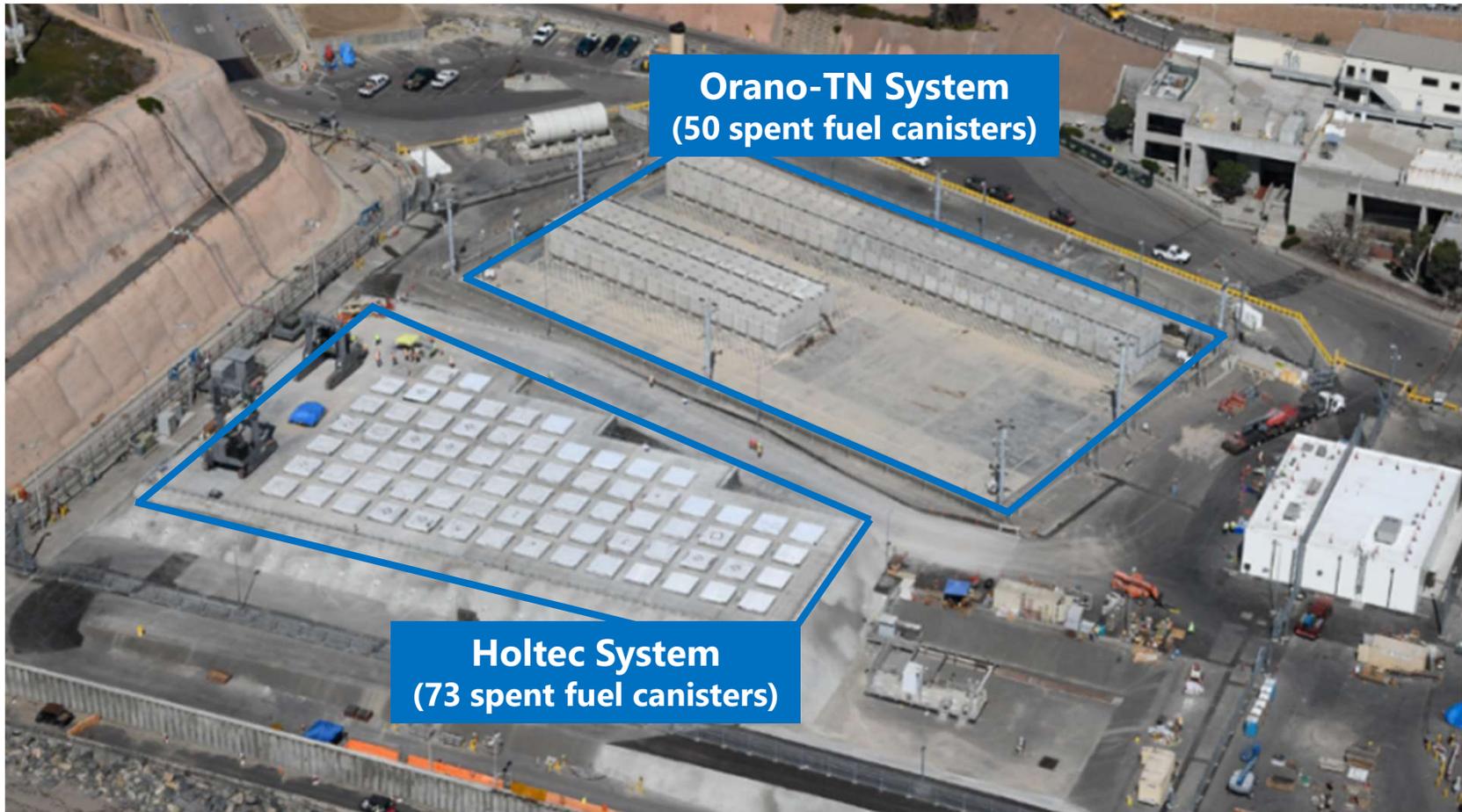
Seawall, Walkway and Riprap

*At completion of the on-shore decommissioning work only the ISFSI, Switchyard, and seawall/walkway/rip-rap will remain*

# Spent Fuel Management

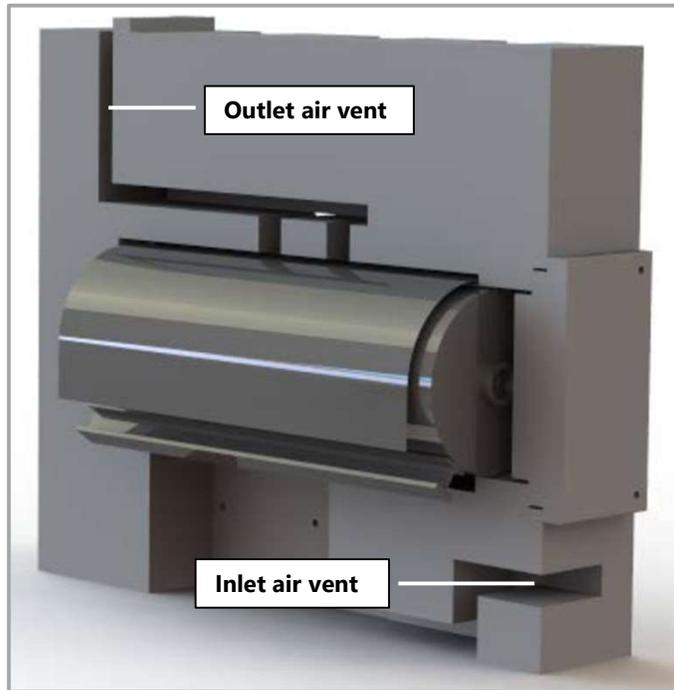


# Independent Spent Fuel Storage Installation (ISFSI)

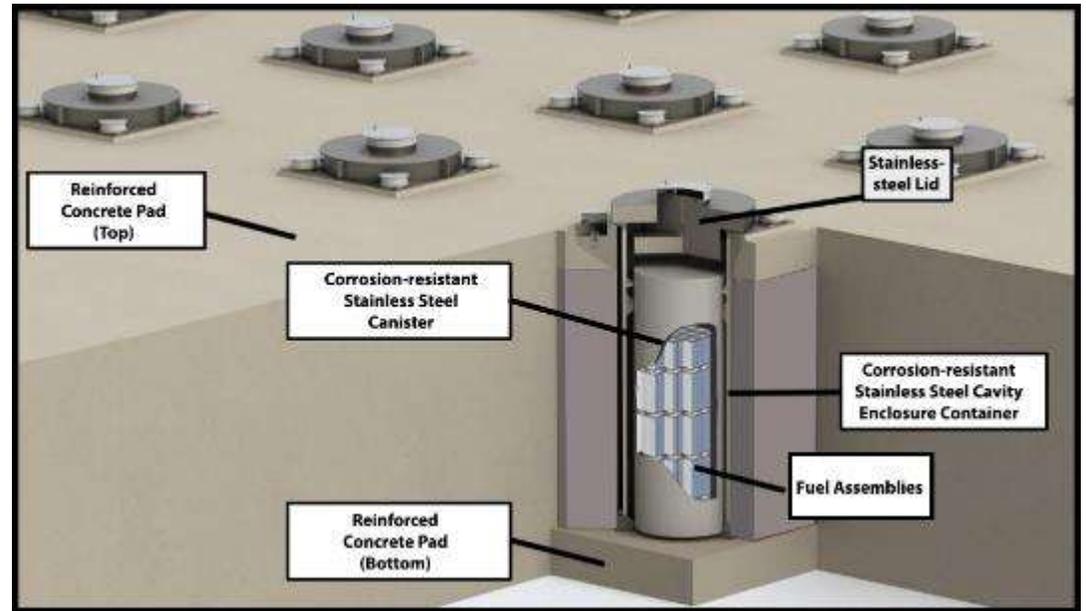


**Provides Passive Dry Cask Storage for Spent Fuel While On Site**

# Safety and Technical Features of Passively Cooled Dry Cask Storage



Orano-TN System



Holtec UMAX

*93% of the dry fuel systems in the U.S. are seal-welded stainless steel multipurpose canisters designed for storage and transportation. [Source: StoreFUEL]*

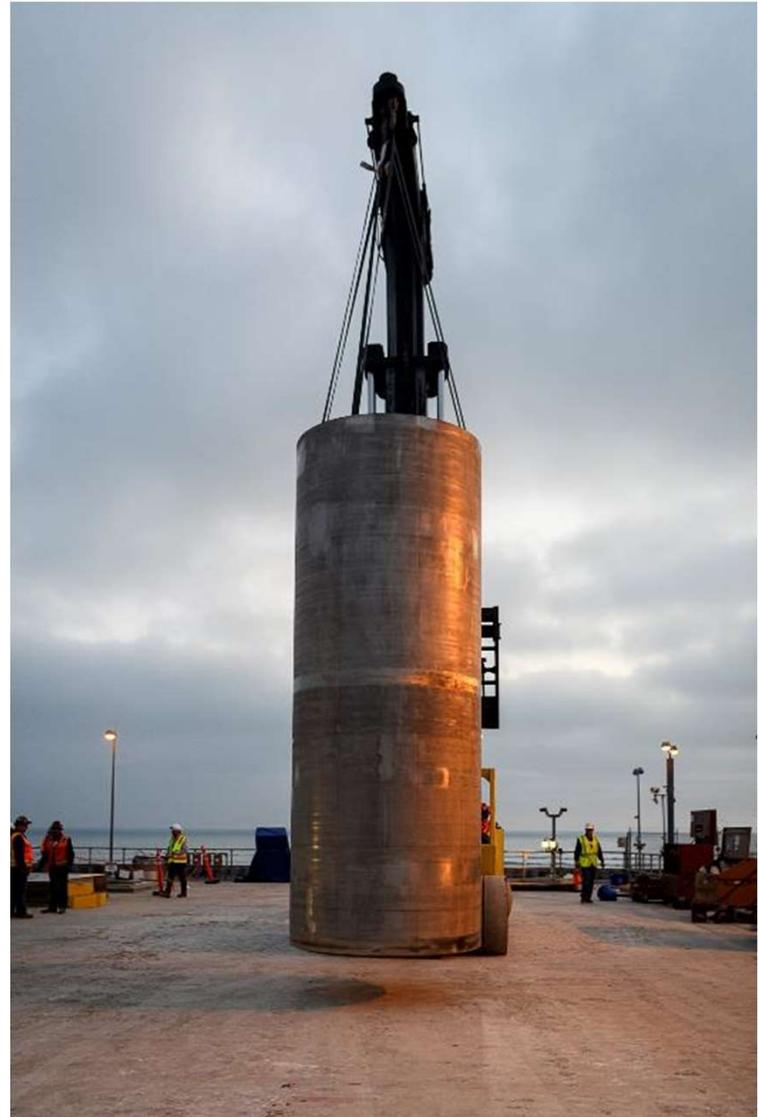
# Storage Done Safely

- Ceramic uranium dioxide fuel pellets
  - Cooling since 2012
  - Requires 5,000 degrees F to melt
  - Decay heat of hottest fuel assembly comparable to hair dryer (~1500W)
- Sealed within corrosion-resistant zircaloy rods (“cladding”)
- Encased in stainless steel canisters pressurized with inert helium

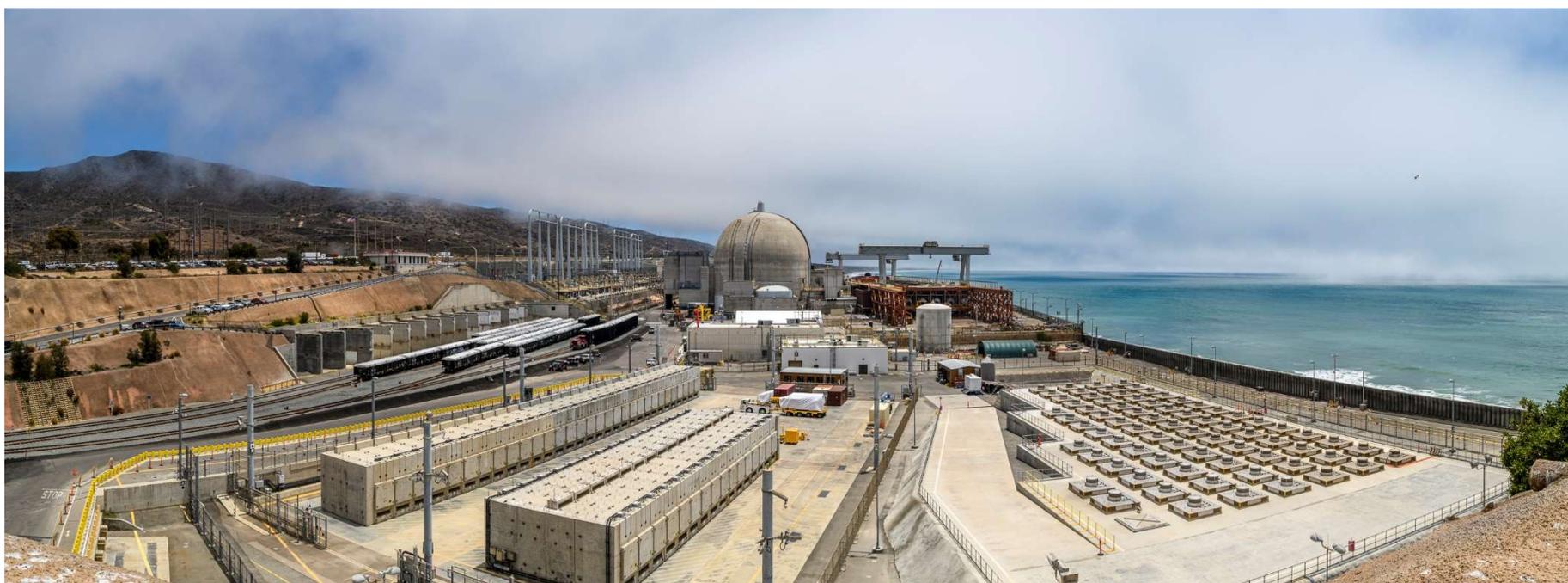


# Robust Canisters

- 5/8" Stainless Steel
- 316L for Corrosion Resistance
- Welds are Laser-Peened
- Seismic Rating: 1.5 g
- Inundation: 50-125 feet of water
- Service Life: 100 years+



# Taking Action to Clear Site of Spent Fuel



## A New Coalition

- A new coalition to catalyze action by the Federal government
- Go here to sign-up: [spentfuelsolutionsnow.com](http://spentfuelsolutionsnow.com)
- Let your voice be heard



# Webinar on International Best Practices

- 8-9 am Thursday, March 23
- Panel discussion representing
  - Finland
  - Sweden
  - Canada
- See “events” page on [spentfuelsolutionsnow.com](http://spentfuelsolutionsnow.com)



Finnish Permanent Geologic Repository

# Staying Informed

## **SONGScommunity.com provides the following information:**

- Community Engagement Panel meeting dates
- Public Walking Tour dates and sign ups
- Decommissioning blog and news updates
- SONGS Monthly Update Email
- Facebook, Twitter, YouTube, Instagram



# Questions

