SAN ONOFRE
COMMUNITY
ENGAGEMENT
PANEL

Community Engagement Panel
Regular Meeting

US Department of Energy
Used Nuclear Fuel Project Updates

Thursday, August 27, 2026
2:00 – 4:30 pm PT via Microsoft Teams
Link available on the CEP meeting webpage at songscommunity.com

THIS MEETING IS BEING RECORDED

Agenda Topics	Presenter(s)	Time
CEP and SCE Opening Comments • Welcome, how to submit questions, sign up for public comment • Discussion topics and read-only content • SONGS "Big Picture" - decommissioning principles, major workstreams and schedule	Dan Stetson, CEP Chair Fred Bailly, SCE VP of Generation and Chief Nuclear Officer Chad Samples, SCE Environmental Project Manager	2:00 – 2:10
CEP General Community Updates • NRC Proposed Changes to Radiation Protection • Rail line repairs	Dan Stetson Victor Cabral, Vice Chair	2:10 – 2:20
Demonstration of Automated Used Nuclear Fuel Canister Monitoring at SONGS • Introduction and current inspections at SONGS • Demonstration project and SONGS Test Canister	Mike Bryson, SCE ISFSI Engineer Jorge Narvaez, Office of Spent Fuel and High-Level Waste Disposition, Office of Storage and Transportation, U.S. Department of Energy (DOE), Office of Nuclear Energy	2:20 – 2:50
Nuclear Lifecycle Innovation Campuses • Vision, status and next steps	Juan Uribe, Acting Director, Office of Disposal Research and Development, Office of Spent Fuel and High-Level Waste Disposition, Office of Nuclear Energy (DOE)	2:50 – 3:05
SONGS Batch Release Update • Groundwater and batch releases	Joe Nowak, Executive Sponsor, San Onofre Decommissioning Solutions (SDS)	3:05 – 3:15
Break		3:15 – 3:20
Public Comment Period and Facilitated Dialogue	Manuel Camargo	3:20 – 4:20
CEP and SCE Closing Comments	Dan Stetson Fred Bailly	4:20 – 4:30
Contents of Appendix - Read Only Topics and Reference Materials: • Spent Fuel Solutions update • SONGS dismantlement update • SONGS batch releases and tritium monitoring updates		

Public Comment

Dan Stetson

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Directions for the public comment period:

To submit comments and questions in writing:

- Use the CEP Comment Form

To sign up to speak:

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Comments and questions will be addressed in the order received

Manuel Camargo will facilitate

SONGS: Big Picture

Fred Bailly
SCE Vice President of Generation and Chief Nuclear Officer

Decommissioning Principles (more **here**)

1. Safety
2. Stewardship
3. Engagement

Major Workstreams

1. Dismantling above ground structures
2. Safely managing spent fuel onsite
3. Advocating for offsite storage and disposal

Current Phase of Dismantlement Set for Completion year-end 2028

DTSC and NRC Notification
Chad Samples

- On July 23rd, a smell of diesel fuel (elevated VOC detected, a non-radiological event) was detected during excavation work in the South Yard
- Condition and safety were evaluated; no risk to workers or the public
- California Department of Toxic Substances Control (DTSC) was notified of the results
- Due to the communication with another government agency, the NRC was notified
- Excavated soil was covered and area cordoned off until the soil is characterized for off-site shipment as waste

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General Community Updates

Dan Stetson

CEP Members

Dan Stetson

SAN ONOFRE COMMUNITY ENGAGEMENT PANEL

Leaders	Organization
Dan Stetson, Chairman	Trustee and Executive Director, Nicholas Endowment
Honorable Victor Cabral, Vice Chairman	Council Member, City of San Clemente
Martha McNicholas, Secretary	Community Member
Members	
Michelle Anderson	Director, Emergency Management Division, Orange County Sheriff's Department
Mike Balsamo	SVP, Government Relations, Rancho Mission Viejo/Board Member, South OC Economic Coalition
Garry Brown	President and CEO, Orange County Coastkeeper
Lisa Davis	President, Capistrano Unified School District Board of Trustees
Honorable Jim Desmond	Supervisor, San Diego County, 5th District
Honorable Katrina Foley	Supervisor, Orange County, 5th District
Rob Howard	Representative, City of Oceanside
Scott Kibbey	South Sector Superintendent, California State Parks, Orange Coast District
Val Macedo	Business Manager, Laborers International Union of North America, Local 89
Ted Quinn	Former President, American Nuclear Society
Honorable John Taylor	Mayor Pro Tempore, City of San Juan Capistrano, 4th District
Captain Mel Vernon	San Luis Rey Band of Mission Indians
Honorable Michael Villar	Council Member, City of Dana Point, 5th District
Daniel Whitley	Community Plans and Liaison Officer, Marine Corps Base Camp Pendleton

CEP Community Updates

Dan Stetson and Victor Cabral

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- NRC Proposed Changes to Radiation Protection
  - Proposed NRC rule change would update radiation protection regulations and remove “as low as reasonably achievable” (ALARA) language, which is currently defined as:
    - Making every reasonable effort to maintain exposure to radiation as far below the dose limits as is practical
    - Related Radiation Protection Programs currently require licensees to use, to the extent practical, procedures and engineering controls to achieve occupational doses and doses to members of the public that are ALARA
- Rail Line Repairs
  - OC Transportation Authority (OTCA) and Metrolink repair train tracks in areas between San Clemente pier and San Diego county line due to strong surf, elevated tides and erosion

3Q Coalition Webinar

Governing Long Promises:
The Long Arc of U.S. Spent Fuel Policy

- September 10 at 8 am
- Featuring anthropologist and former DOE Senior Program Manager Vincent Ialenti
- Discussion will explore policy shifts, the Innovation Campus initiative, recycling, and host community consent

To RSVP or submit questions, email info@spentfuelsolutionsnow.com

Vincent Ialenti

Used Fuel Canister Inspections: Current and Emerging Programs

Mike Bryson, SCE

Jorge Narvaez, U.S. DOE

SONGS Spent Fuel Canister Inspection Programs

Mike Bryson, SCE ISFSI Engineer

SONGS canister monitoring: current inspections and DOE demonstration

What SONGS does today

Use proven robotic inspection methods for both SONGS dry-storage systems

Inspections are performed under NRC Mandated site Aging Management Program/California Coast Commission inspection programs and support continued confidence in canister condition

For recent inspection results see [October 16, 2025 CEP Educational Seminar]

SONGS position on acoustic monitoring

We support DOE testing and development as good industry partners

SONGS does not need acoustic monitoring to meet current inspection and aging-management commitments

The technology may help inform future tools, but it is not a current requirement for SONGS

Why DOE may see value

A future federal facility may receive canisters from multiple sites and systems

Those canisters could arrive at different stages of aging-management implementation

A scalable monitoring approach could be useful for DOE's broader integrated management challenge

Used Nuclear Fuel (UNF) Canister Monitoring Technology Demonstration at SONGS

Jorge Narvaez

Office of Spent Fuel and High-Level Waste Disposition

Office of Storage and Transportation

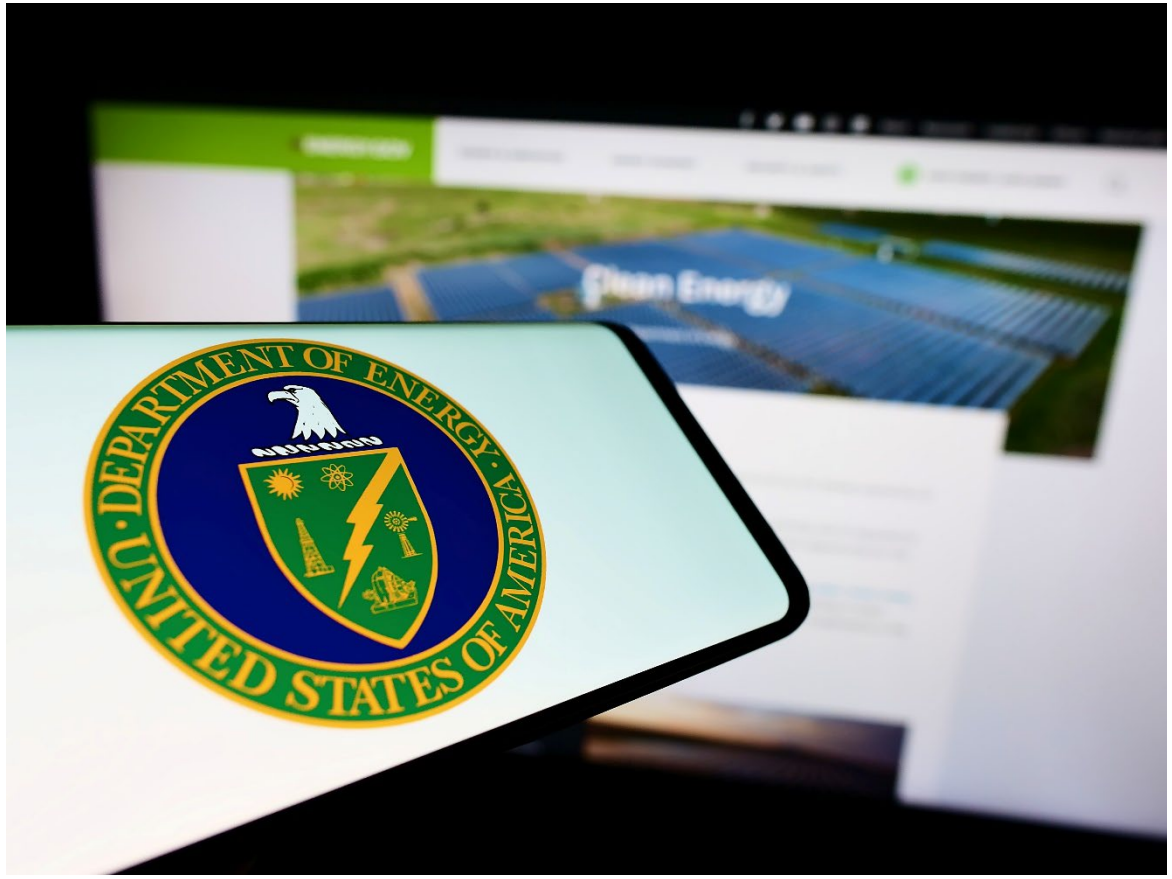
08/27/2026

DISCLAIMER

This is a technical presentation that does not take into account contractual limitations or obligations under the Standard Contract for Disposal of Spent Nuclear Fuel and/or High-Level Radioactive Waste (Standard Contract) (10 CFR Part 961).

To the extent discussions or recommendations in this presentation conflict with the provisions of the Standard Contract, the Standard Contract governs the obligations of the parties, and this presentation in no manner supersedes, overrides, or amends the Standard Contract.

This presentation reflects technical work which could support future decision making by the U.S. Department of Energy (DOE or Department). No inferences should be drawn from this presentation regarding future actions by DOE, which are limited both by the terms of the Standard Contract and Congressional appropriations for the Department to fulfill its obligations under the Nuclear Waste Policy Act including licensing and construction of a used nuclear fuel[1] repository.



[1]The term “used nuclear fuel” is intended to be synonymous with the term “spent nuclear fuel” as used and defined in the Nuclear Waste Policy Act of 1982, as amended, and the Standard Contract for the Disposal of Spent Nuclear Fuel and/or High-Level Radioactive Waste (10 CFR Part 961).

Aging Management Program (AMP)

San Onofre Nuclear Generating Station (SONGS)

- Nuclear Regulatory Commission (NRC) regulations under 10 CFR Part 72
  - Nuclear utilities are required to have AMPs for all used nuclear fuel (UNF) storage systems
  - "*That may include prevention, mitigation, condition monitoring, and performance monitoring*"
- The NRC recently endorsed the use of ASME Code Case (CC) N-860 to meet AMP requirements

Technology Review Panel (TRP)

Tasked with reviewing and selecting applicable UNF canister monitoring technologies

Led by the U.S. Department of Energy (DOE) with support from Oak Ridge National Laboratory (ORNL), the Electric Power Research Institute (EPRI), Hanford Tank Waste Operations and Closure (H2C), and Southern California Edison (SCE)

Conducting several rounds of down-selection based on Evaluation Criteria

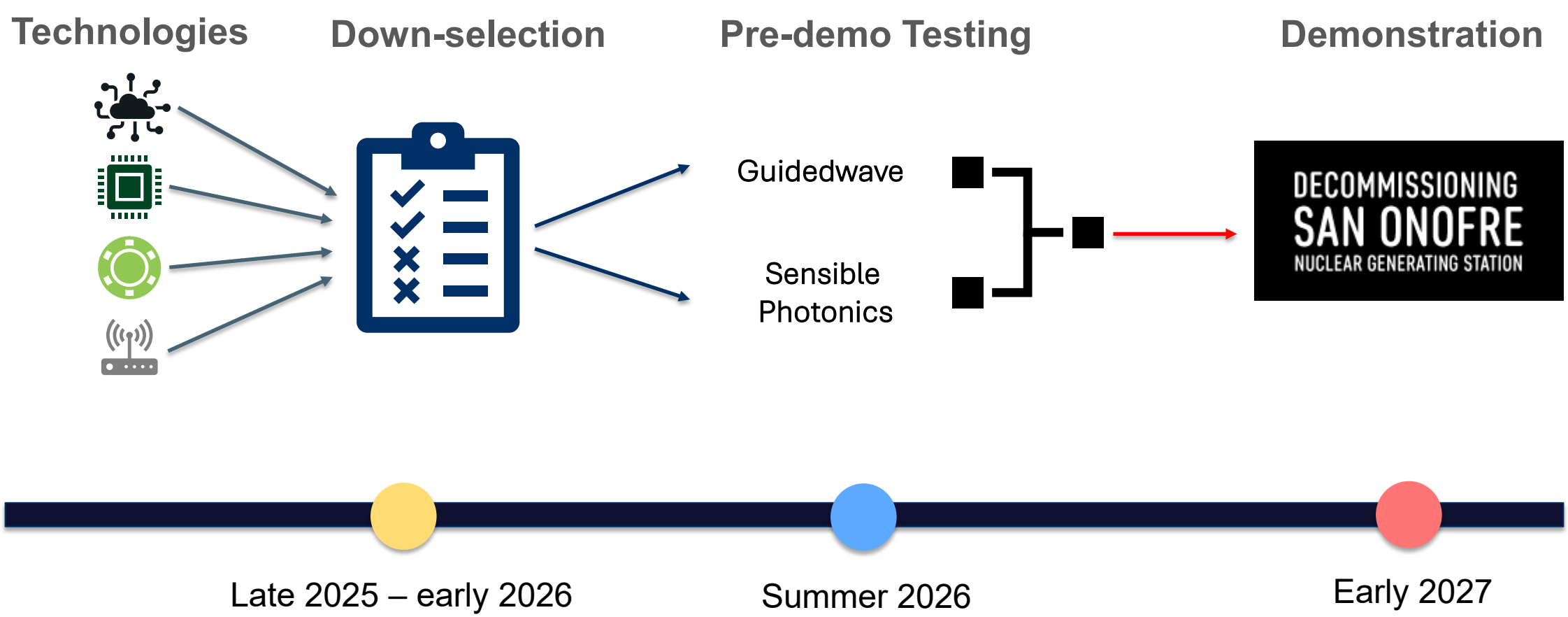
Exploring possibility of deploying selected technology(s) on test canister located at the SONGS Independent Spent Fuel Storage Installation (ISFSI)

Performers and Technologies

- DOE has been supporting several projects under:
  - Nuclear Energy University Program (NEUP) Program
  - DOE Small Business Innovation Research (SBIR) Program
  - Hanford site double shell tank monitoring

- Non-destructive evaluation technologies
  - Acoustic emissions sensors
  - Electro-magnetic acoustic transducers (EMATs) sensors
  - Guided wave sensors
  - Fiber optic sensors

Overview of Technology Down-selection



Exploring Possibility of Deploying at SONGS Test Canister

- Selected technology will be deployed in 2027
- Electrically heated canister
- Inside Holtec UMAX System
- Demonstrate mature technology

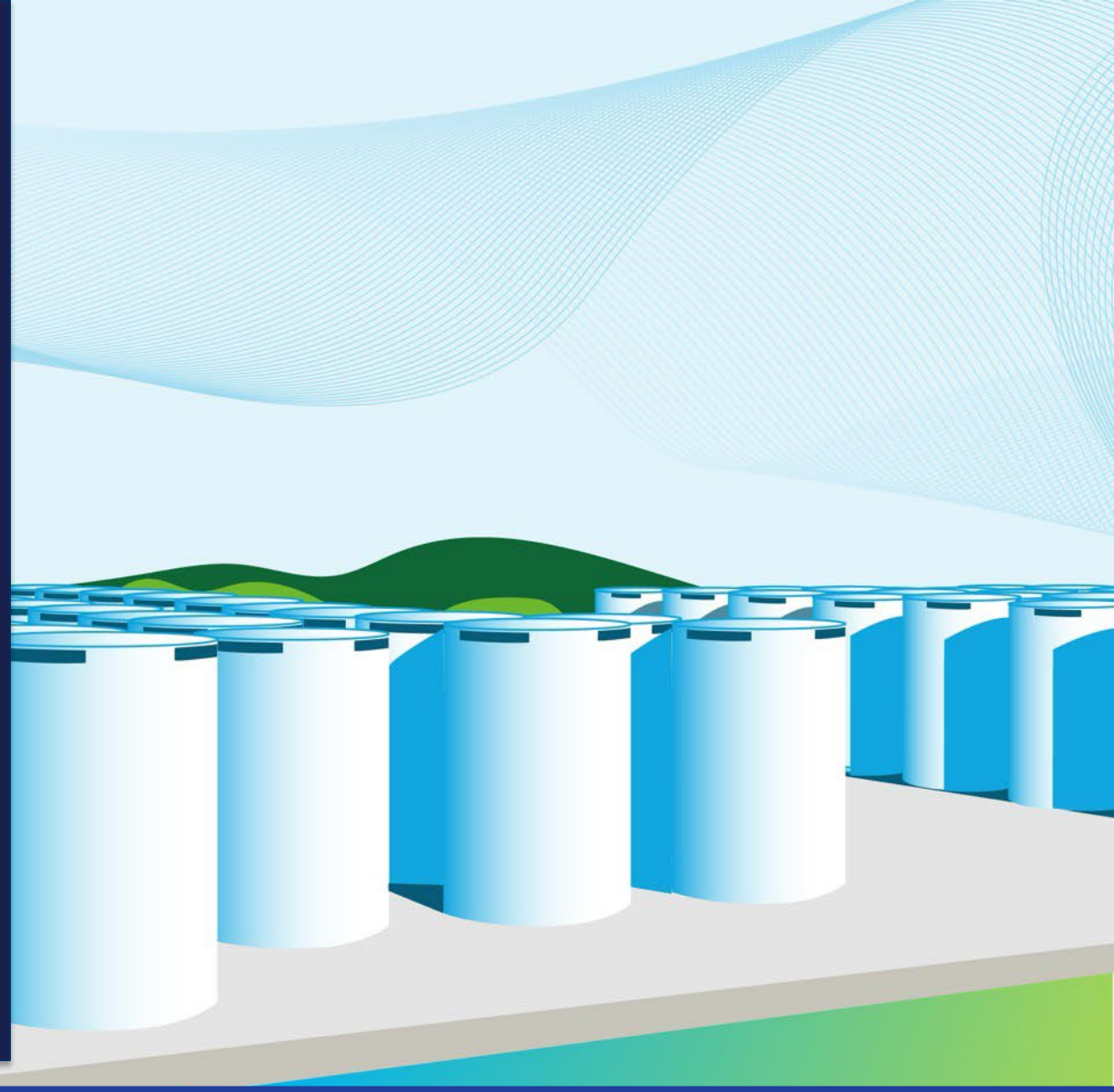
Test canister installation at SONGS

Nuclear Lifecycle Innovation Campus (NLIC) Update

August 27, 2026

Juan Uribe
Acting Director, Office of Disposal Research and Development

Office of Spent Fuel and High-level Waste Disposition



Request for Information (RFI) on Establishment of Nuclear Lifecycle Innovation Campuses (NLIC)

- DOE invited all states to express their interest in hosting Nuclear Lifecycle Innovation Campuses
- NLICs will support activities across the full nuclear lifecycle, including but not limited to:
  - Enrichment
  - Fuel fabrication
  - Nuclear power generation
  - Advanced reactor deployment
  - Used nuclear fuel (UNF) recycling
  - Management and disposition of UNF and high-level radioactive waste (HLW)
  - Advanced Manufacturing
  - Data Center Construction and Operations
- Partnership between States, Federal Government, and industry
- Opened Jan 30, 2026; Closed April 1, 2026

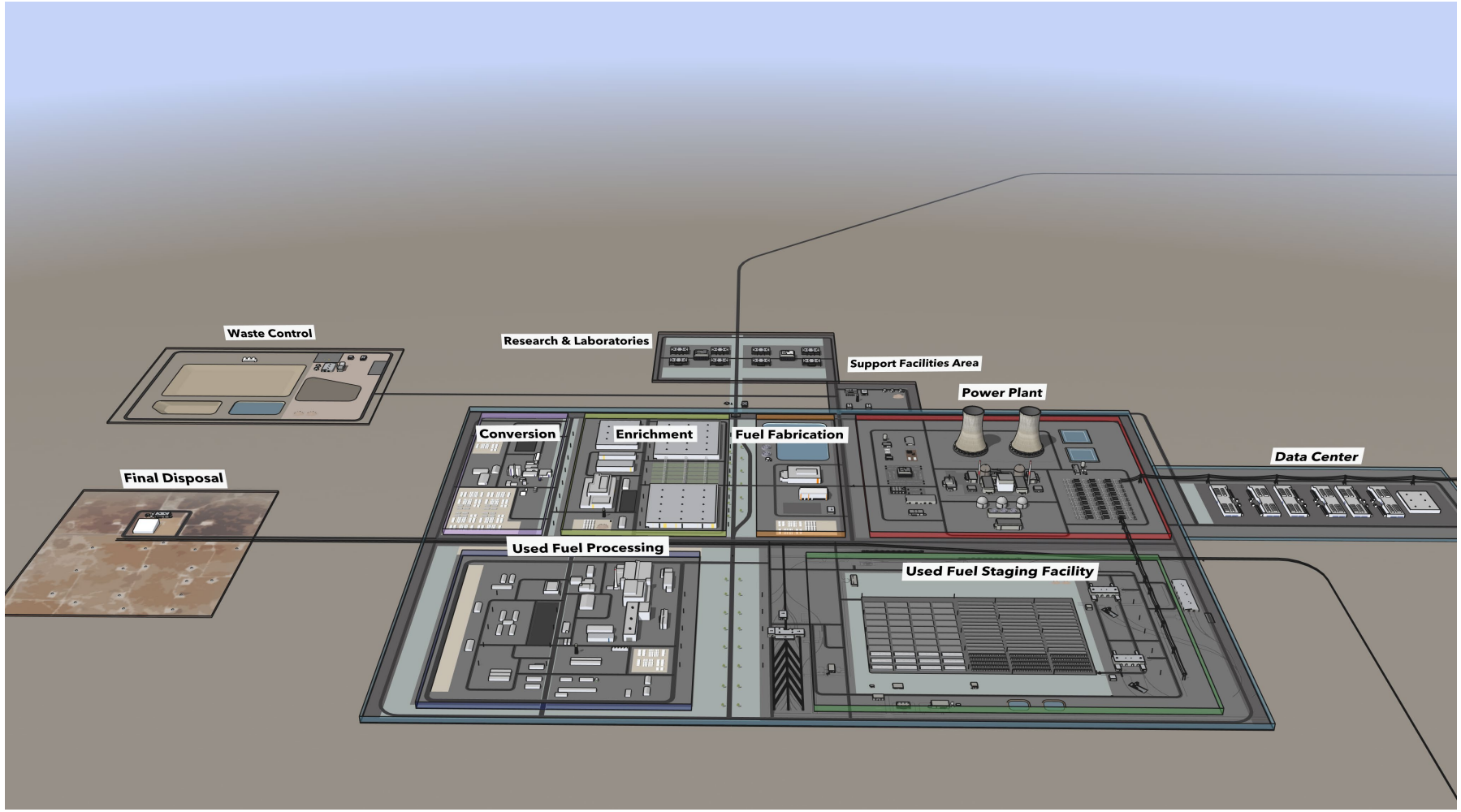
Nuclear Lifecycle Innovation Campuses Contenders Announced

- DOE received 28 applications from 26 states.

- On July 28, 2026, DOE announced the selection of Utah, Tennessee, Oklahoma, Louisiana, and Idaho as potential host states.

- Next steps are to begin more detailed discussions and transition from MOU to Host Agreement
  - Identify mechanisms for binding agreement between DOE and State
  - Negotiate benefits
  - Determine scope of facilities included in a State-specific NLIC

Generic NLIC Conceptual Design & Benefits



Estimated State Benefits for full NLIC campus

- **22,000+ permanent jobs**
- **~$9 billion in annual state and local tax revenue**
- **~$50 billion in capital cost investment**
- **2,500+ acres of new development**

U.S. DEPARTMENT *of* ENERGY | Office of Nuclear Energy

Spent Fuel and High-Level Waste Disposition

SONGS Batch Release Update

Joe Nowak

Executive Sponsor, San Onofre Decommissioning Solutions

SONGS Batch Release Update

- During dismantlement, a hole was punctured in a Unit 2 basement wall at 15 feet below the water table, allowing groundwater intrusion
- Groundwater included in batch releases
- Processed water is sampled and analyzed prior to release to confirm NPDES discharge permit and NRC license requirements – including radiation – are met
- In short term, batch releases will increase in volume and frequency
- April batch release did not meet total suspended solids limits and returned to basin; some water evaporated naturally, some later processed/released

Public Comment

Dan Stetson

SAN ONOFRE COMMUNITY ENGAGEMENT PANEL

Directions for the public comment period:

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Manuel Camargo will facilitate

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BREAK

Speaker Queue:

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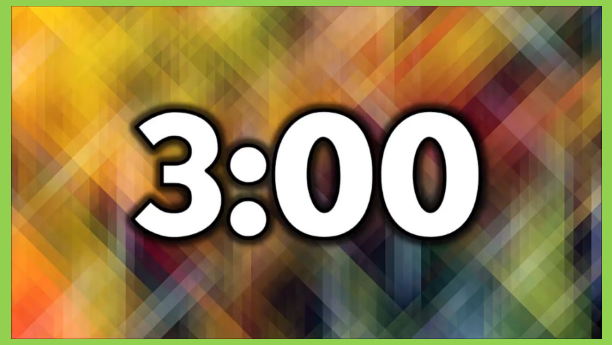
General Public Comment

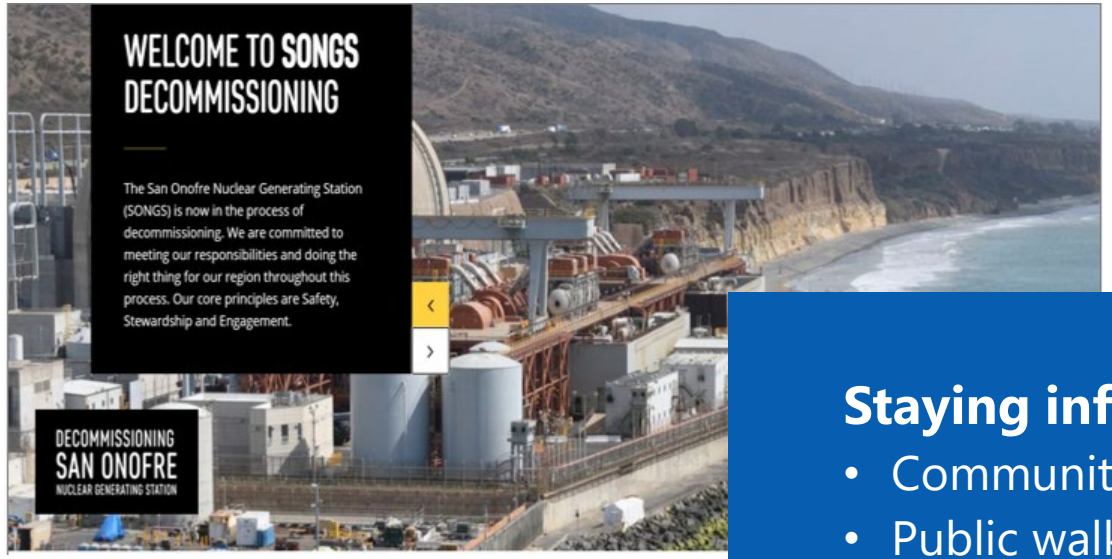
To sign up to speak online use the [CEP Comment Form]



CLOSING COMMENTS
FRED BAILLY

Resources

Learn about decommissioning
www.songscommunity.com



Staying informed

- Community Engagement Panel meeting dates
- Public walking tour dates and sign ups
- Decommissioning blog and news updates
- SONGS community update email
- Facebook, YouTube, and Instagram

KEY TAKEAWAYS
DAN STETSON

2026 CEP Meetings and Topics

(subject to change)

Preliminary Focus Topics	Dates
1Q CEP Regular Meeting Department of Energy: High Burnup Research Cask Transportation Project	March 19
2Q CEP/Spent Fuel Solutions Coalition Joint Meeting The Path Forward for Nuclear Waste in the U.S.	June 4
3Q CEP Regular Meeting DOE Used Nuclear Fuel Project Updates	August 27
4Q CEP Regular Meeting SONGS Dismantlement Update by San Onofre Decommissioning*Solutions*	November 5
CEP Member Consultation Meeting	December 9

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Thank you
Stay safe and healthy

Acronyms

ACM	Asbestos Containing Material
AHSM	Advanced Horizontal Storage Module
ALARA	As Low As Reasonably Achievable
AMP	Aging Management Program
AREOR	Annual Radiological Environmental Operating Report
ASME	American Society of Mechanical Engineering
C&D	Cold & Dark
CAP	Corrective Action Program
CCC	California Coastal Commission
CBS	Core Barrel Support
CCR	Current Conditions Report
CDP	Coastal Development Permit
CDPH	California Department of Public Health
CEC	California Energy Commission; Cavity Enclosure Container
CEP	Community Engagement Panel
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CH&S	Corporate Health & Safety
CIS	Consolidated Interim Storage
CNO	Chief Nuclear Officer
CPEN	Camp Pendleton
CPUC	California Public Utilities Commission
CSLC	California State Lands Commission
D&D	Decontamination & Dismantlement
DA	Decommissioning Agreement; Decommissioning Agent
DCE	Decommissioning Cost Estimate
DGC	Decommissioning General Contractor
DGCL	Derived Concentration Guideline Levels
DID	Defense-in-Depth
DOE	Department of Energy
DoN	Department of Navy

DOR	Division of Responsibility
DPH	Department of Public Health
DSAR	Defueled Safety Analysis Report (replaces FSAR)
DSC	Dry Storage Canister
D-SEIS	Draft Supplemental Environmental Impact Statement
D-SER	Draft Safety Evaluation Report
DSFM	Division of Spent Fuel Management (NRC)
DTF	Decommissioning Trust Fund
DTSC	Department of Toxic Substances Control
EAL	Emergency Action Level
EH&S	Environmental, Health & Safety
EIR	Environmental Impact Report (under CEQA)
EIS	Environmental Impact Study (under NEPA)
EP	Emergency Plan
EPA	Environmental Protection Agency
EPRI	Electric Power Research Institute
ERO	Emergency Response Organization
ET	Experts Team
FA	Fuel Assembly
FEIR	Final Environmental Impact Report
FERC	Federal Energy Regulatory Commission
FSAR	Final Safety Analysis Report
FSS	Final Status Surveys
FSSR	Final Status Survey Report
FTO	Fuel Transfer Operations; Field Training Officer
GTCC	Greater Than Class C (Waste)
HAZ	Heat Affected Zone
HI-TRAC	Holtec International Transfer Cask
Hi-PORT	Holtec International Transporter
HI-STORM	Holtec International Storage Module
HSM	Horizontal Storage Module

Acronyms

IOEP	ISFSI-Only Emergency Plan
IPC	Interjurisdictional Planning Committee
IRMS	ISFSI Radiation Monitoring System
ISA	Industrial Security Area
ISFSI	Independent Spent Fuel Storage Installation
LAR	License Amendment Request
LLRW	Low-Level Radioactive Waste
LOED	Large Organism Exclusion Device
LTP	License Termination Plan
MARSSIM	Multi-Agency Radiation Survey Site & Investigation Manual
MOU	Memorandum of Understanding
MPC	Multi-Purpose Canister
NDTF	Nuclear Decommissioning Trust Fund
NEI	Nuclear Energy Institute
NEPA	National Environmental Policy Act
NOP	Notice of Preparation
NOV/IO	Notice of Violation and Investigative Order
NPDES	National Pollutant Discharge Elimination System
NPP	Nuclear Power Plant
NRC	Nuclear Regulatory Commission
NTP	Notice to Proceed
NUREG	Nuclear Regulation
NUHOMS	Nutech Horizontal Modular Storage
OC	Orange County
O&M	Operation & Maintenance
OE	Operating Experience
OSHA	Occupational Safety & Health Administration
PA	Protected Area
PDEP	Permanently Defueled Emergency Plan
PDTS	Permanently Defueled Technical Specifications
PPE	Personal Protective Equipment
PSDAR	Post-Shutdown Decommissioning Activities Report

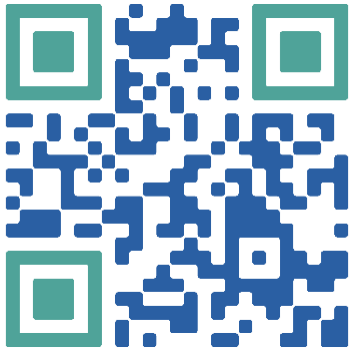
Q&A	Questions and Answers
RECP	Radioactive Effluents Control Program
REIR	Request for Environmental Impact Review
REMP	Radiological Environmental Monitoring Program
RP	Radiological Protection
RPV	Reactor Pressure Vessel
RSI	Request for Supplemental Information
RV	Reactor Vessel
RVI	Reactor Vessel Internals
RWQCB	Regional Water Quality Control Board
SCE	Southern California Edison
SD	San Diego
SDDEH	San Diego Department of Environmental Health
SDS	San Onofre Decommissioning*Solutions*
SFP	Spent Fuel Pool; Support Foundation Pad (ISFSI)
SFPI	Spent Fuel Pool Island
SLC	State Lands Commission (CA)
SLR	Sea Level Rise
SONGS	San Onofre Nuclear Generating Station
STP	Sewage Treatment Plant
SWPPP	Storm Water Pollution Prevention Plan
T&D	Transmission & Distribution
TBA	To Be Announced
TBD	To Be Determined
TEDE	Total Effective Dose Equivalent
UFSAR	Updated Final Safety Analysis Report
UT	Ultrasonic Testing
UU	Unrestricted Use
VCT	Vertical Canister Transporter
VLLW	Very Low-Level Waste
VRS	Volume Reduction Station
WNR	Wheeler North Reef (Marine Mitigation)
WHOI	Woods Hole Oceanographic Institution

Appendix: Read-Only Topics and Reference Material

- Spent Fuel Solutions coalition update
- SONGS dismantlement update
- SONGS batch release and tritium monitoring updates

SPENT FUEL SOLUTIONS

Coalition Update



Coalition Updates

- Spent Fuel Solutions now has more than 300 members from 18 states and Washington, D.C.
- The Policy Committee is exploring ways to support Nuclear Lifecycle Innovation Campuses following the announcement of five finalist states:
  - Utah
  - Idaho
  - Tennessee
  - Oklahoma
  - Louisiana
- Our third quarter webinar, featuring former DOE Senior Program Manager Vincent Ialenti, will take place September 10 at 8 a.m.
- The coalition is also planning a briefing trip to Washington, D.C. in September

Anthropologist and former DOE Senior Program Manager Vincent Ialenti

SONGS Dismantlement Update

Safety Overview

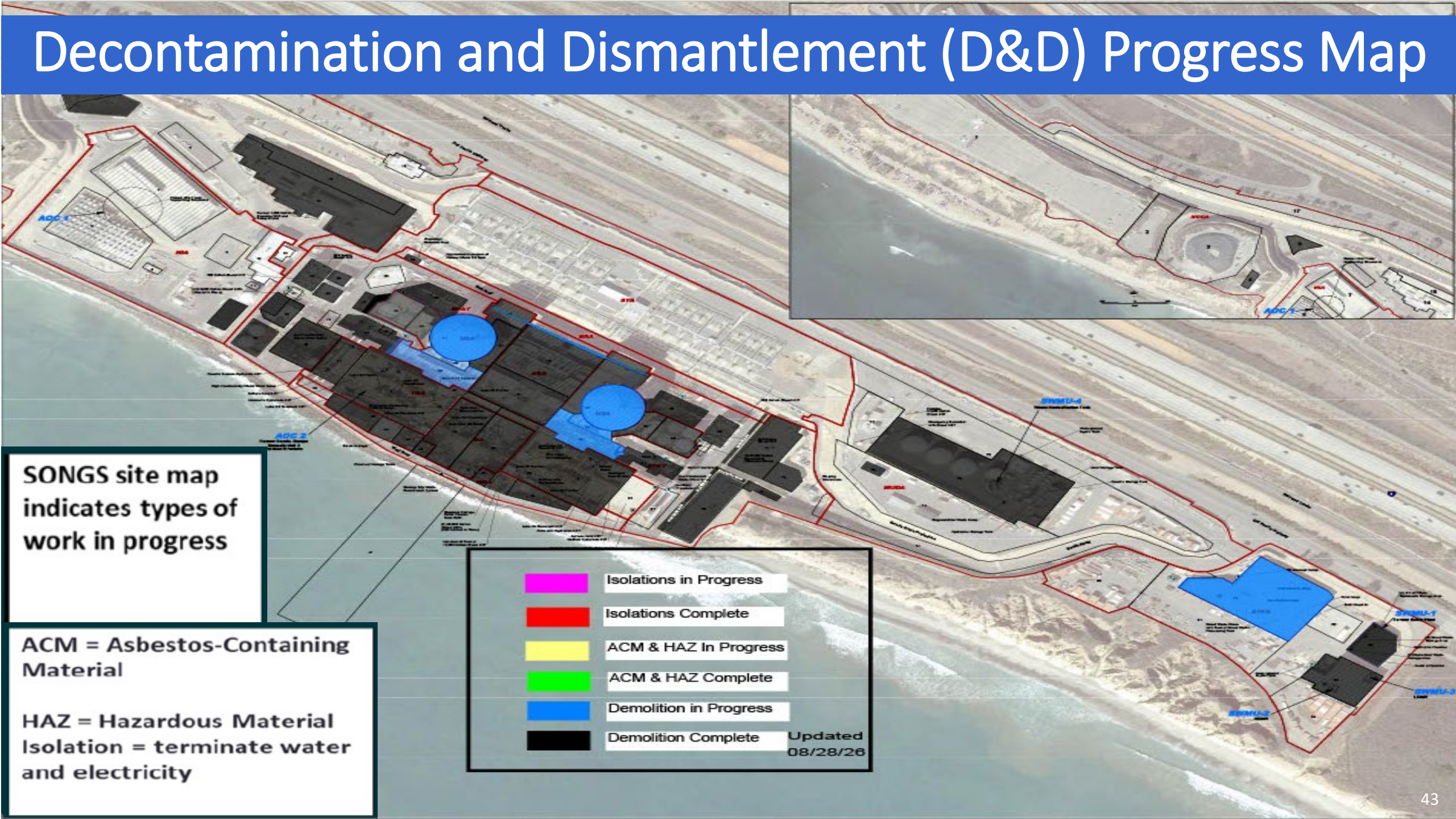
Industrial Safety

- Safety culture remains focused on compliance with programs and procedures
- Emphasis on effective pre-job briefs, hazard identification and situational awareness
- Positive safety metrics with zero OSHA Recordables for > 12 months
- Two close call / near miss incidents in 2026
  - Unsecured electrical panel cover fell approx. 15' in U2 Containment due to building vibration from demolition equipment
  - Vehicle nearly collided with pedestrian crossing road

Radiological Safety

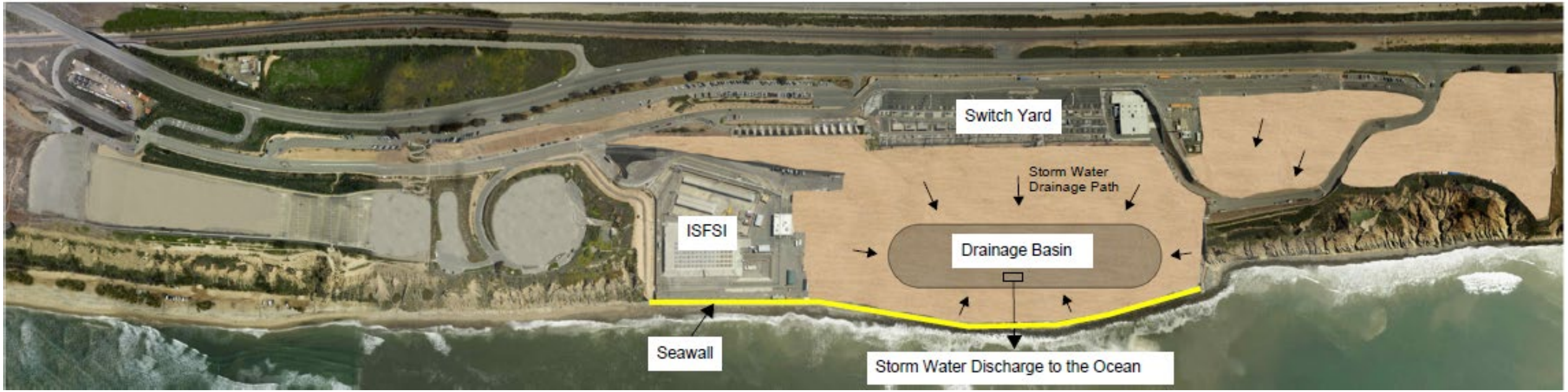
- ALARA annual dose goal of 44 rem
- Focus on radiological best practices and regulatory compliance

Decontamination and Dismantlement (D&D) Progress Map



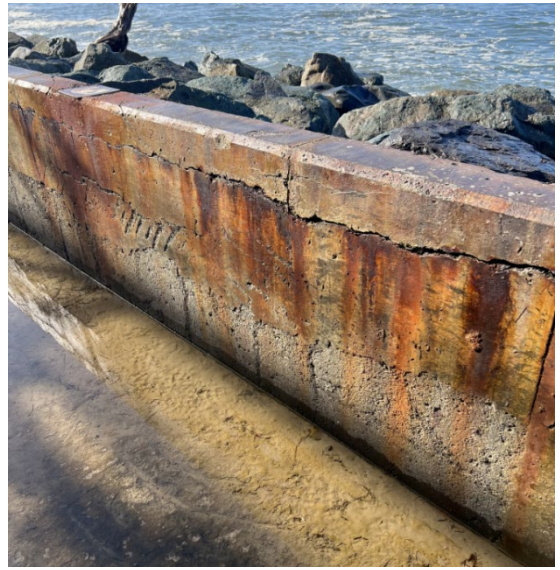
SONGS Post-Phase 2 Decommissioning

At completion of current phase of decommissioning, only independent spent fuel storage installation, switchyard, drainage basin, and seawall (walkway and rip-rap) remain

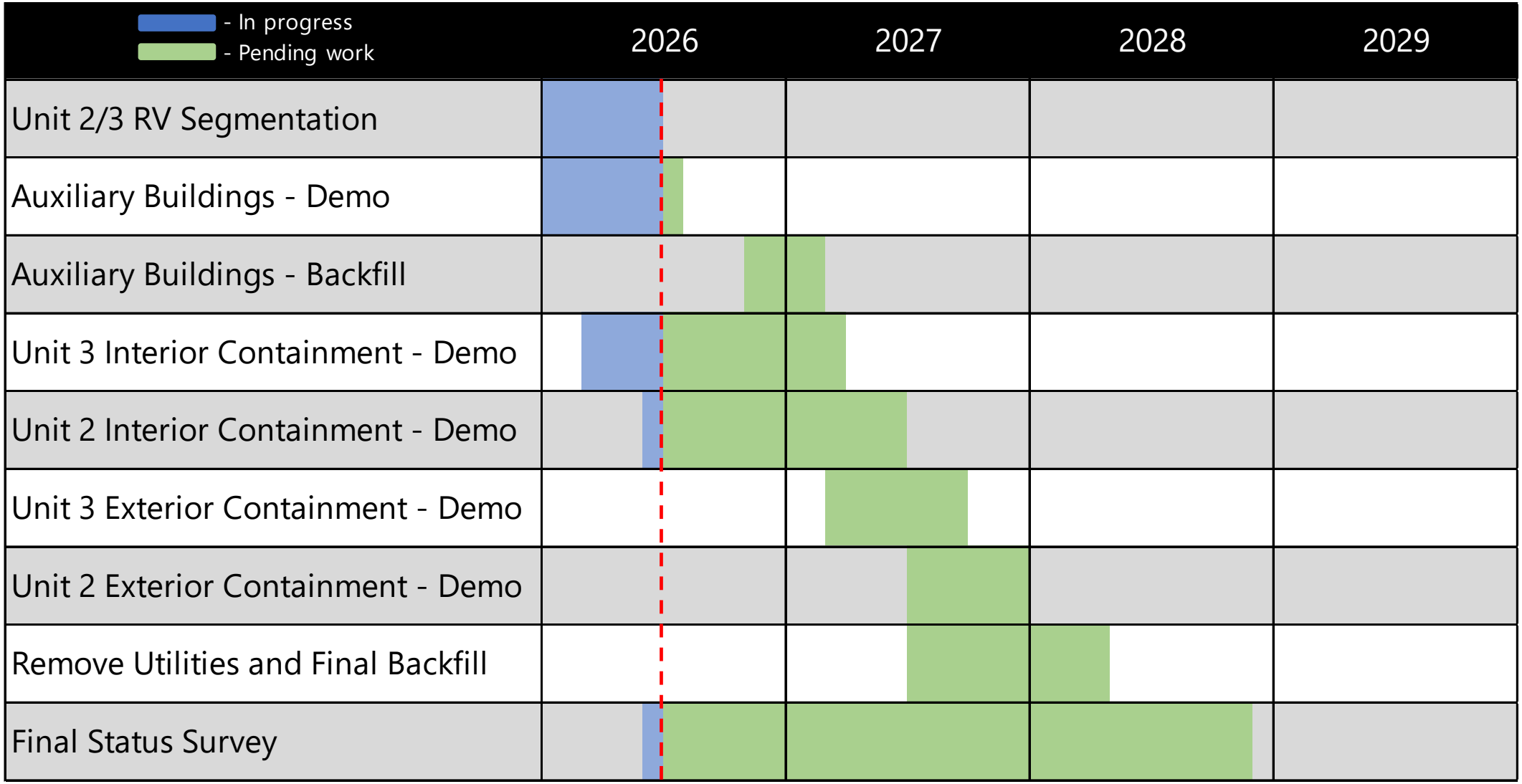


Improvements to SONGS Public Walkway

- Improvements to walkway that connects San Onofre State Beach North and South is underway
- Work started in June and includes demolition and repairs to the pedestrian retaining wall between points A and D shown below; work is expected to be complete by 1Q 2027
- Efforts are being made to minimize closure of the walkway; when closures are needed for public safety, signage will be posted in advance at the park entrance and walkway
- All work is done in accordance with the California Coastal Development permit for the SONGS site
- Adjacent seawall remains in good condition and is out of scope



Dismantlement Project Schedule: Key Activities



Demo – Demolition and Shipment of Material
RV - Reactor Vessel

Key Decommissioning Activities

Controlled Building Demolition

U2 Reactor Vessel (RV) Segmentation

U2 & U3 Containment Interior Demolition

Unit 2 Open Air Demo

Unit 3 Open Air Demo

Unit 3 Containment Interior Demolition at Hatch

Unit 2 DIE Tent – Staging Equipment for Demo

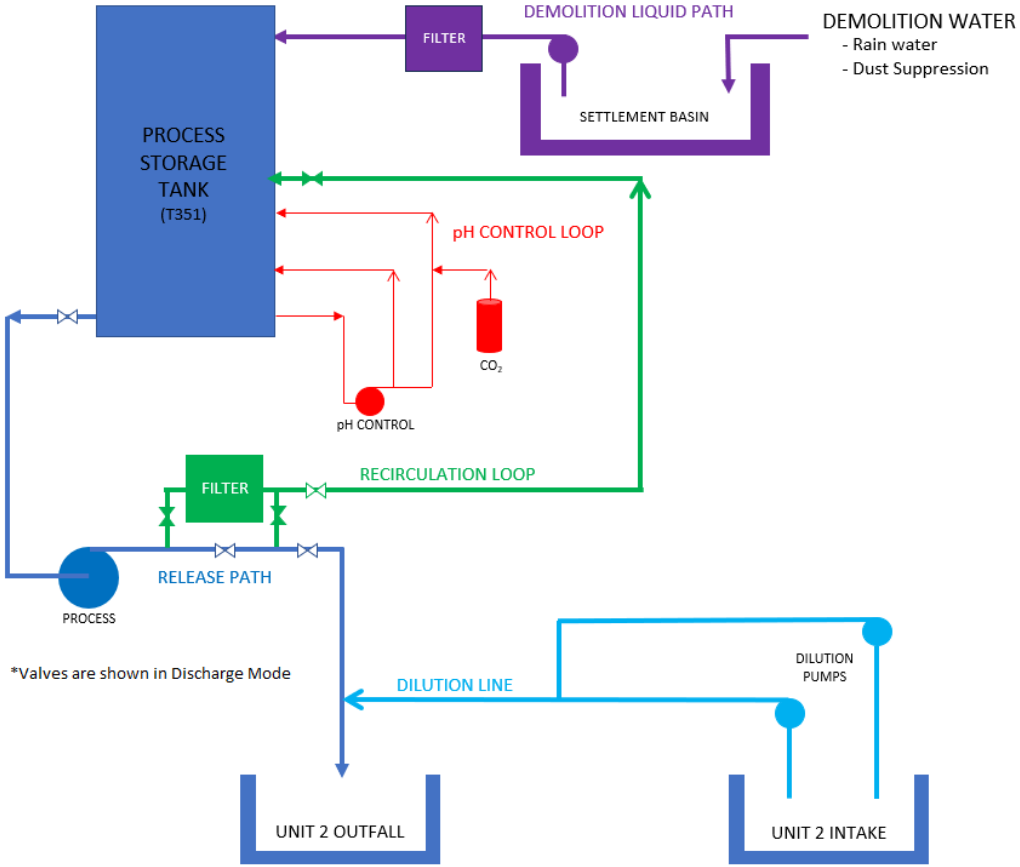
Unit 3 DIE Tent – Waste Removal and Loading

Beach Walkway Wall Repair

Gunite Slope Repair

SONGS Liquid Batch Release Update

Liquid Batch Releases Update



- In 2025 SONGS completed the processing of high activity spent fuel pool and reactor cavity water
- What remains now is rainwater, dust suppression water ("demolition water") and groundwater that collects in building basements undergoing demolition
- Demolition water absorbs trace amounts of radioactivity (mainly tritium) from concrete rubble
- Due to the presence of concrete, demolition water requires processing through filters and adjustment of pH, a measure of acidity and alkalinity of a liquid
- Ion exchangers and an inline radiation monitor are no longer necessary
- Processed water is sampled and analyzed prior to release to confirm NPDES discharge permit and NRC license requirements (including radiation) are met

2026 Status of Liquid Batch Releases

2026 Releases	
Release Date	**Volume (Gallons)**
2026 Releases	
Release Date	**Volume (Gallons)**
1/12/2026	121,031
1/22/2026	140,572
2/5/2026	141,841
2/20/2026	140,471
3/6/2026	127,250
6/30/2026	84,254
7/20/2026	41,229
7/27/2026	114,006
8/3/2026	147,723
8/10/2026	149,620
Total to Date	**1,207,997**

% of Annual Whole Body Dose Limit	***0.0420%***

- Releases pose no harm to people, or the environment as supported by decades of independent monitoring
- Trace amounts of radioactivity remaining in the water is far below SONGS NRC license requirements (<1.5 mrem/qtr. and <6 mrem/yr.)
- Trend in batch release dose is progressively lower each year (2023=0.0244 mrem; 2024=0.00616 mrem; 2025=0.000592 mrem)
- SONGS continues to provide 48-hour advance notice of batch releases via songscommunity.com
- SONGS continues to monitor the environment around SONGS following its Radiological Environmental Monitoring Program (REMP)

Understanding Release Notifications

- **CA State Lands Lease PRC 6785.1 Special Provision 29.b** mandates advance notification of NRC regulated batch releases to the ocean, specifying required information like date, duration, estimated volume and radiological characterization
- **Total Dose** is the dose to a member of the public based on radioactivity concentration in the estimated water volume to be released
- **% of Annual Whole Body Dose Limit** represents the cumulative dose for all releases in a calendar year, with a dose limit of 6 mrem/year for liquid releases
- SCE voluntarily updates information on releases post-completion, beyond the requirements of special provision 29.b
- Occasionally the volume of a completed release may be significantly lower than was planned. In such cases, the total dose of the release would be proportionally lower than estimated
- As a practice SCE does not update the total dose value on its website for completed releases because the total dose is already very small
- The **% of Whole Body Dose Limit** is reconciled monthly based on the actual release volumes and doses from the prior month

Release Notification

Notice Date: March 2, 2026

Est. Start Date: March 5, 2026

Volume: 127,250 gallons

Duration: 9.3 hours

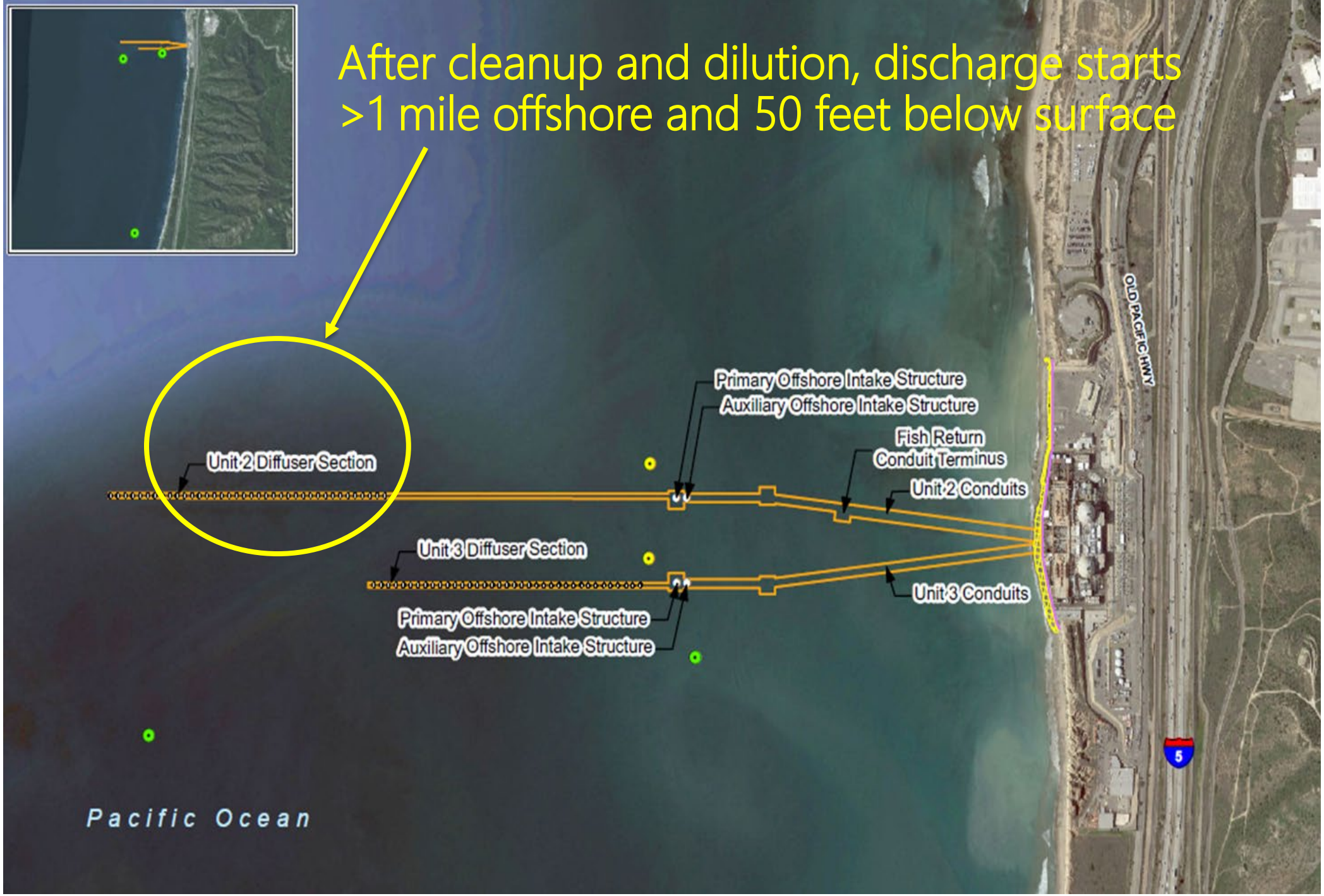
Status: Complete

Characterization:

Total Dose: 0.000000545 mrem

% of Annual Whole Body Dose Limit: 0.0141%

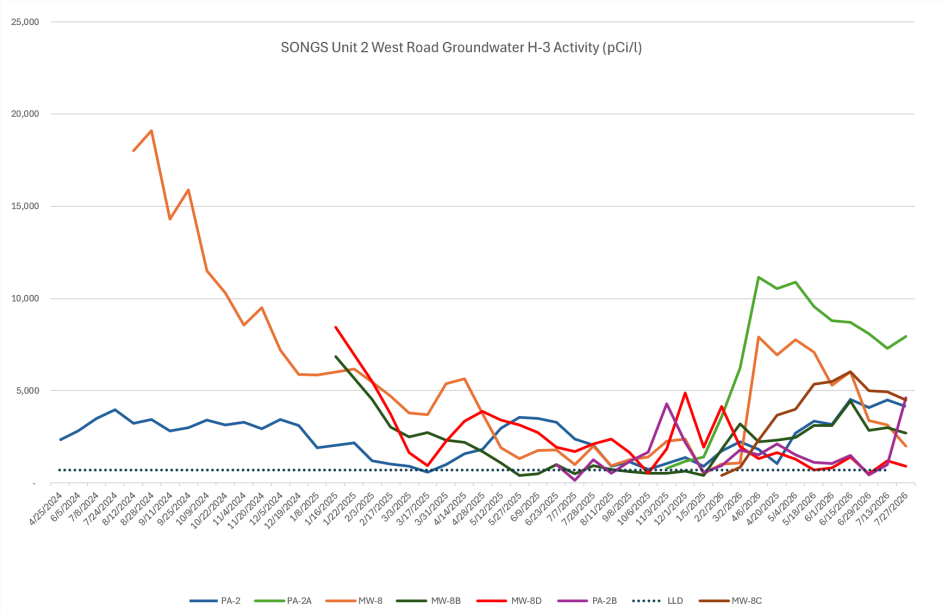
(Note: This percentage is estimated and cumulative for all releases in 2026, based on a limit of 6 mrem/year for liquid releases.)

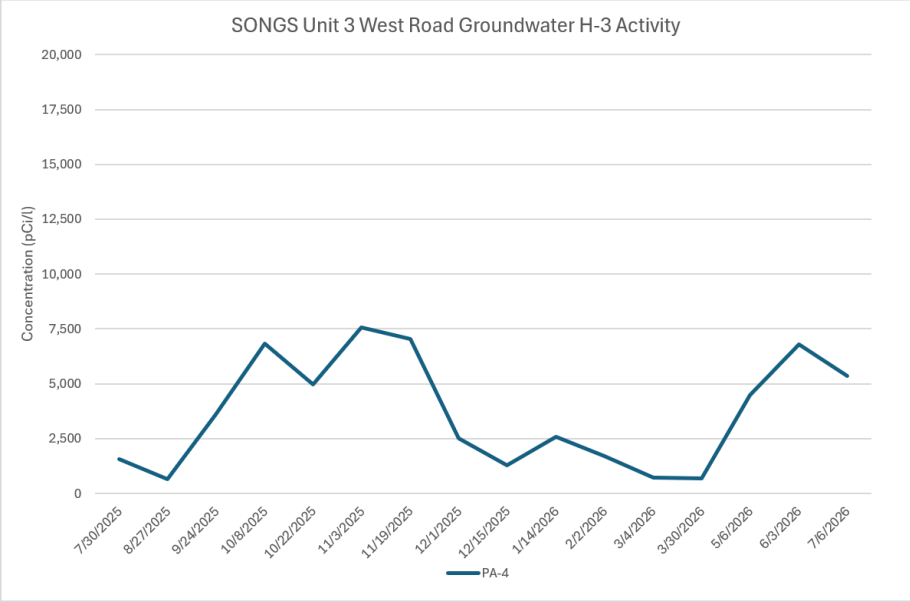
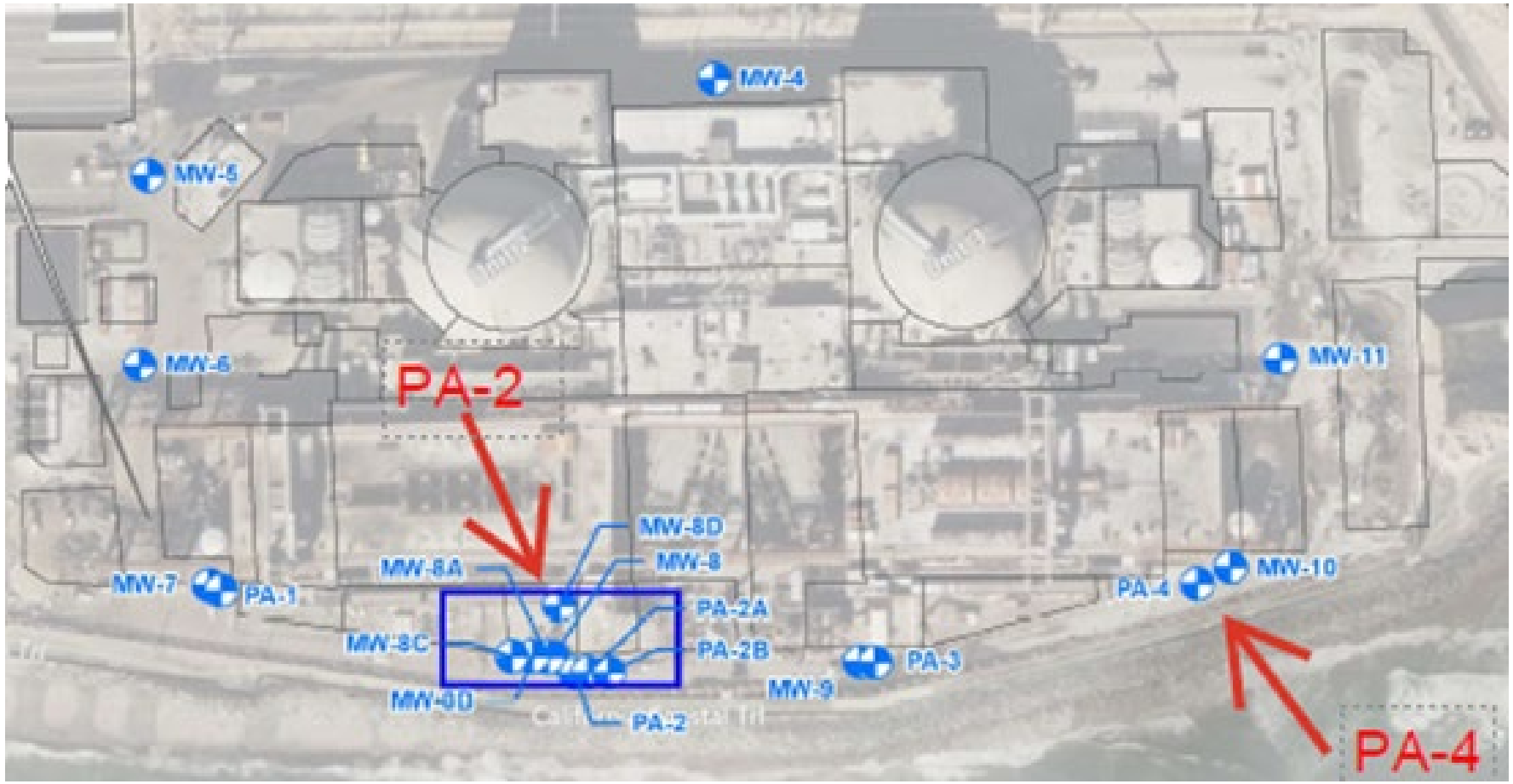

After cleanup and dilution, discharge starts
>1 mile offshore and 50 feet below surface
Unit 2 Diffuser Section
Primary Offshore Intake Structure
Auxiliary Offshore Intake Structure
Fish Return
Conduit Terminus
Unit 2 Conduits
Unit 3 Diffuser Section
Unit 3 Conduits
Primary Offshore Intake Structure
Auxiliary Offshore Intake Structure
OLD PACIFIC HWY
5
Pacific Ocean

SONGS Tritium Monitoring Update

Groundwater Tritium Monitoring (H-3) Update

- Tritium levels in groundwater beneath San Onofre were low upon detection in summer 2024, pose no risk to public health, and remain well within safe limits and are being closely monitored
- An upward trend has been observed for well PA-2B which may be due to a shift in the plume. We will continue to sample and monitor this





Groundwater Monitoring Well Locations