CEP Regular Meeting
SONGS Dismantlement and Removal of Spent Fuel from San Onofre
Thursday, November 21, 2019
5:30 - 8:30 p.m.
Oceanside, California
Public comment?
Write to: nuccomm@songs.sce.com
<table>
<thead>
<tr>
<th>Agenda Topic</th>
<th>Presenter</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td><strong>CEP and SCE welcome &amp; opening comments</strong></td>
<td>David Victor, Doug Bauder</td>
<td>5:30 - 5:35 (5 min)</td>
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<tr>
<td><strong>CEP general updates</strong></td>
<td>David Victor, David Victor, D. Victor, D. Stetson, J. Kern</td>
<td>5:35 – 5:50 (15 min)</td>
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<tr>
<td><strong>SONGS decommissioning update</strong></td>
<td>Doug Bauder, Lou Bosch, Ron Pontes</td>
<td>5:50 – 6:10 (20 min)</td>
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<tr>
<td><strong>Dismantlement &amp; removal of plant structures</strong></td>
<td>Tom Dieter (SDS), Bob Corbett (SDS)</td>
<td>6:10 – 6:30 (20 min)</td>
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<tr>
<td><strong>Advancing Spent Fuel Removal from San Onofre</strong></td>
<td>Tom Isaacs (ET), Phil Niedzielski-Eichner (NWT), Brian Gutherman (NWT), Joe Hezir (NWT)</td>
<td>6:30 – 6:50 (20 mins)</td>
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<tr>
<td><strong>Nuclear Waste Technical Review Board</strong></td>
<td>Bret Leslie</td>
<td>6:50 – 6:55 (5 min)</td>
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<tr>
<td><strong>Break</strong></td>
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<td>6:55 – 7:05 (10 min)</td>
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<td><strong>Public comment</strong></td>
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<td>7:05 - 8:05 (60 min)</td>
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<tr>
<td><strong>Facilitated dialogue</strong></td>
<td>Dan Stetson, Jerry Kern</td>
<td>8:05 – 8:25 (20 min)</td>
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<tr>
<td><strong>SCE and CEP closing comments</strong></td>
<td>Doug Bauder, David Victor</td>
<td>8:25 – 8:30 (5 min)</td>
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Welcome and Opening Comments

David Victor and Doug Bauder
CEP General Community Updates

- NRC NEIMA community advisory board meeting
- CEP Visit to Holtec International, Inc.
- 3rd Quarter CEP Meeting Questions and Answers
CEP Updates
David Victor, Dan Stetson & Jerry Kern

• NRC public meeting on community advisory board best practices – Aug. 29, 2019 in San Juan Capistrano

• CEP leadership visit with Holtec – Sept. 17, 2019
3Q CEP Meeting Q&A
Dan Stetson & Jerry Kern

Answers to questions related to the following topics are available on songscommunity.com:

1. Information on double walled canisters assessed by SCE
2. Why the Holtec system was selected among the top three vendors
   [link]
3. “Risk driven” inspections and reason for the number of canisters inspected
4. TN/NUHOMS canister inspections using robotics
5. Determine if there are any leaking canisters in U.S.
6. How much low level radiological waste is on site and expected to be shipped
7. Information on sea-level rise
   [link]
8. NRC requirements on canister retrievability
   [link]
9. Write a white paper on Inspection & Maintenance and Aging Management Program for CEP members and general audience and post it on the website
   [link]
Decommissioning Update Topics

- Decommissioning plan
- Fuel Transfer Operations Update
- Environmental Stewardship
  - Permitting
  - Radiation monitoring and reporting
  - Environmental monitoring – public notifications
# Decommissioning Plan

## SONGS Decommissioning Plan

<table>
<thead>
<tr>
<th>Year</th>
<th>Description</th>
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<tbody>
<tr>
<td>2014</td>
<td>Pre-Decommissioning Work</td>
</tr>
<tr>
<td>2015</td>
<td>Fuel in Wet &amp; Dry Storage</td>
</tr>
<tr>
<td>2016</td>
<td>CEQA Review</td>
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<tr>
<td>2017</td>
<td>Major Decommissioning Work</td>
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<tr>
<td>2018</td>
<td>All Fuel in Dry Storage</td>
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<tr>
<td>2019</td>
<td>Complete Transfer of Fuel from Wet to Dry Storage</td>
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<tr>
<td>2020</td>
<td>ISFSI-only NRC Requirements Implemented</td>
</tr>
<tr>
<td>2021</td>
<td>NRC Partial Site Release</td>
</tr>
<tr>
<td>2022</td>
<td>Future milestones are tentative</td>
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<tr>
<td>2023</td>
<td>Transfer Fuel Offsite (Actual Timing Pending Offsite Storage Facility)</td>
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<tr>
<td>2024</td>
<td>NEPA Review</td>
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<tr>
<td>2025</td>
<td>Substructure Removal &amp; Site Restoration</td>
</tr>
<tr>
<td>2026</td>
<td>ISFSI Demo</td>
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<tr>
<td>2027</td>
<td>Terminate NRC License</td>
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<tr>
<td>2028</td>
<td>NRC Full Site Release</td>
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<tr>
<td>2029</td>
<td>Terminate License</td>
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SUBJECT TO SONGS DECOMMISSIONING AGREEMENT, SECTION 19.3
Fuel Transfer Operations

Lou Bosch
SONGS Plant Manager
Decommissioning Principles

Safety
Stewardship
Engagement

For more information on SONGS visit www.SONGScommunity.com
Tracking Fuel Movement

40 downloaded to date forecast complete mid-2020
Pool To Pad Transfer Summary

• Continued focus on Safety

• Low threshold for use of Corrective Action Program

• Early identification of issues and prompt resolution

• Schedule pressure not an issue
Challenges

• Shield cone

• Vertical Cask Transporter (VCT) diesel exhaust fumes

• Vertical Cask Transporter (VCT) tower height sensor cable failed

• Unit 2 cask crane speed sensor broken bolt
Status Summary

• No serious safety or human performance issues

• Continued good teamwork

• Healthy and effective relationship between Holtec and SCE

• Continuous improvement actions are in process
  – Procedure revisions to improve clarity
Environmental Stewardship

Ron Pontes
Manager Environmental Decommissioning
Permitting: California Environmental Quality Act

Two permits required to start dismantlement and removal of plant structures

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<tr>
<th>MILESTONE</th>
<th>TIMING</th>
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<tbody>
<tr>
<td><strong>Final Environmental Impact Report (EIR) and lease certified by CSLC at public meeting</strong></td>
<td>Approved March 21, 2019</td>
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<tr>
<td><strong>Coastal Development Permit (CDP) application for onshore work approved by CCC at public meeting</strong></td>
<td>Approved October 17, 2019</td>
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</table>

Offshore work on intake and discharge conduits requires a CDP from CCC with a public meeting anticipated by mid-2021
Dry Cask Storage
Radiation Monitoring System

• Radiation monitoring:
  – Added in response to public interest; SCE exceeds NRC requirements
  – ISFSI radiation data to be streamed to offsite agencies
  – Monthly public reports published by CA Department of Public Health, Radiologic Health Branch
  – System will be in service before dismantlement of the plant begins
  – System installation and testing underway
Liquid Batch Radiological Releases

• Liquid batch radiological releases
  – Effluents processed and cleaned to ensure safety to people, marine life, and the environment
  – Releases performed since start of Unit 1 operations
  – Performed in accordance with NRC license and regulations (none require advance notice due to low, safe levels)
  – All releases monitored, measured and reported annually to the NRC (reports are available to the public at the NRC website)
  – Significantly reduced following shutdown of Unit 1 in 1992 and shutdown of Units 2 and 3 in 2013
Reporting Future Liquid Batch Releases

• SCE will notify the public 48 hours prior to release via the website

• Information will include
  ✓ Estimated volume
  ✓ Estimated duration
  ✓ Radiological characterization
Radiological Environmental Monitoring

- To ensure health & safety of the public and environment, SCE conducts year-round radiological monitoring including:
  - Ocean water
  - Soil
  - Kelp
  - Beach sand sediment
  - Non-migratory fish species surrounding the plant
- Environmental monitoring results will be posted to [www.SONGScommunity.com](http://www.SONGScommunity.com)
- Batch release is anticipated in mid-December 2019
- Additional batch releases planned during 1Q 2020
Discharge starts 6,000 feet off shore
SONGS
Dismantlement and Removal of Plant Structures

Doug Bauder
Chief Nuclear Officer and VP Decommissioning
SONGS Decontamination and Dismantlement

Thomas J. Dieter
Executive Sponsor
SONGS DecommissioningSolutions
(SDL)
Thomas J. Dieter
Executive Sponsor, SONGS Decommissioning Solutions (SDS)
Vice President and Project Manager
Rocky Flats Closure Project
ZION Decommissioning SDS Partner EnergySolutions

Zion Nuclear Station
Sept 2019

Zion Nuclear Station
Sept 2010

D&D Start Date
Oct 2010

Current Status
Demo Complete
Oct 2019

Projected Finish
Early 2020

Original Planned Completion
[Dec 2020]
San Onofre Decommissioning Project

Delivers

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

• SDS video of San Onofre plant dismantlement
Bob Corbett
Radiation Protection Manager, SONGS Decommissioning Solutions (SDS)
Radiological Safety During Decommissioning

• #1 Priority: Ensure radiological safety for both site workers and public

– Employ fully trained and qualified staff

– Maintain control of radioactive material (keep it where it belongs)
  • Verification methods include: surveys, sampling, and monitoring

– Site condition will meet or exceed federal standards when complete
Advancing Spent Fuel Removal from San Onofre

Tom Isaacs
Experts Team Chair & Independent Strategic Advisor for Waste Management
A utility exploring alternatives for removing spent nuclear fuel from a commercial nuclear plant is unique in the U.S.

A Strategic Plan will consider a range of alternatives for offsite storage/disposal and recommend actions that SCE can take to:

- advance viable solutions for relocating spent fuel off-site,
- be ready to transport once a site becomes available, and
- advance policy and regulations to promote off-site storage/disposal
SONGS Experts Team is Providing Guidance and Peer Review

<table>
<thead>
<tr>
<th>Team Member</th>
<th>Expertise</th>
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<tbody>
<tr>
<td>Tom Isaacs (Chairman)</td>
<td>Siting and licensing</td>
</tr>
<tr>
<td>Kris Cummings</td>
<td>Nuclear engineering</td>
</tr>
<tr>
<td>Gary Lanthrum</td>
<td>Transportation</td>
</tr>
<tr>
<td>Allison Macfarlane</td>
<td>Siting and licensing</td>
</tr>
<tr>
<td>Rick Moore</td>
<td>Transportation</td>
</tr>
<tr>
<td>Dr. Josie Piccone</td>
<td>Radiation monitoring and detection</td>
</tr>
</tbody>
</table>

- Roles and activities of Experts Team
  - Helped select consultant North Wind Team to develop Strategic Plan
  - Providing ongoing guidance and peer review on Strategic Plan
  - Assisting in the selection of the consultant to develop a Conceptual Transportation Plan
  - Will provide guidance and peer review on Conceptual Transportation Plan
STRATEGIC PLAN FOR SONGS SPENT FUEL REMOVAL

Today’s North Wind Team Members:

- Phil Niedzielski-Eichner | Team Director
- Brian Gutherman | Regulatory Lead
- Joe Hezir | Legislative and Policy Lead
An Old Problem

SONGS Site

Transportation

Receiving Site

Societal & Political Environment

Regulatory & Legal Environment
Seeking a SONGS Solution

• Develop a strategy to relocate the SONGS spent fuel to an offsite storage or disposal facility
  – Conduct economic, regulatory, logistical, legal and statutory analysis of a range of alternatives
  – Examine potential sources of funding
  – Identify actions required to implement viable solutions
  – Solicits local, regional and national stakeholder input

• Identify actions that will enhance SCE’s readiness to ship spent fuel offsite
# Talent Working on the Solution

<table>
<thead>
<tr>
<th>North Wind Team Member</th>
<th>Role and Subject Matter Expertise</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phillip Niedzielski-Eichner</td>
<td>Team Director, Policy and Legal Analysis</td>
</tr>
<tr>
<td>Elizabeth Helvey</td>
<td>Project Manager, Transportation Stakeholder Engagement</td>
</tr>
<tr>
<td>Ernest Moniz</td>
<td>Senior Advisor</td>
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<tr>
<td>Tom Hassenboehler</td>
<td>Senior Advisor</td>
</tr>
<tr>
<td>Steven Croley</td>
<td>Policy and Legal Analysis</td>
</tr>
<tr>
<td>Brian Gutherman</td>
<td>Regulatory, Cask Loading and Operations</td>
</tr>
<tr>
<td>Joseph Hezir</td>
<td>Strategic Planning and Options Analysis</td>
</tr>
<tr>
<td>Jeanette Pablo</td>
<td>Legal Advisor</td>
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<tr>
<td>Joseph Rivers</td>
<td>Environmental Analysis</td>
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<tr>
<td>Timothy Runyon</td>
<td>Transportation Operations and Regulatory Analysis</td>
</tr>
<tr>
<td>Marika Tatsutani</td>
<td>Writer and Editor</td>
</tr>
<tr>
<td>James Voss</td>
<td>Engineering and Operations</td>
</tr>
<tr>
<td>Mary Woollen</td>
<td>Stakeholder Engagement</td>
</tr>
</tbody>
</table>
Analyze the Alternatives
Brian Gutherman
Tackle Hard Questions

• SONGS Site
  – When and under what conditions does possession and title transfer of the spent fuel occur?
  – What does SCE need to do to prepare for transportation?
  – What are the national implications of SONGS actions?

• Transportation
  – If not DOE, who is the shipper?
  – How would a private shipping model work (e.g., licensing, insurance)
  – What transportation modes are available and feasible?
  – Strategic Plan content | Conceptual Transportation Plan content

• Receiving Site
  – Federal or private facility?
  – Timeframe for licensing, construction, operation?
  – Commercial arrangements
Legislative & Funding Challenges
Joe Hezir

• Legislative
  – McNerney/Shimkus (House)
  – Levin (House)
  – Murkowski/Alexander/Feinstein (Senate)

• Funding
  – Congressional Appropriation
  – Nuclear Waste Fund
  – Judgment Fund
  – Private Investment
The Schedule

• Commenced work June 2019
• Publish Strategic Plan in December 2020
Stay Involved

• Continue to follow national efforts and understand historical barriers to success
• Track progress at [website address]
• Submit comments to [website address]
• Attend CEP meetings for progress reports

Presented to:
SONGS Community Engagement Panel (CEP)

Presented By:
Bret Leslie, Senior Professional Staff

San Onofre Nuclear Generating Station CEP Meeting
November 21, 2019
Oceanside, CA
Board Mission

- The U.S. Nuclear Waste Technical Review Board (Board) was established by Congress as an independent federal agency in the 1987 amendments to the Nuclear Waste Policy Act.

- The Board evaluates the “technical and scientific validity” of U.S. Department of Energy (DOE) Nuclear Waste Policy Act-related activities, wherever in DOE the activities are undertaken, including:
  - Activities relating to packaging or transportation of spent nuclear fuel (SNF) and high-level radioactive waste (HLW)
  - Site characterization, design, and development of facilities for disposing of SNF or HLW
Board Mission (continued)

- The Board’s interest in the management of SNF at utility sites is limited to the impact this may have on the operations DOE may need to undertake after taking title to the SNF.

- Statements or presentations in Board public meetings are not Board positions.

- The Board’s positions are found in our reports to Congress and DOE and in our correspondence to DOE or to Congress.
Board Report on the Management of DOE Spent Nuclear Fuel

- Covers the management and disposal of the full range of SNF managed by DOE
- Discusses differences between the characteristics of different types of SNF managed by DOE
- Examined technical issues related to DOE SNF packaging and storage that might affect continued storage, transportation, and disposal by DOE
Board Report on DOE Spent Nuclear Fuel (continued)

- Findings and recommendations are specific to the type(s) of DOE SNF identified, e.g.:
  - Potential accumulation of hydrogen gas relates to dry-storage of aluminum-clad and aluminum-based DOE SNF, not commercial SNF or “sodium-bonded” DOE SNF
  - The monitoring and inspection recommendations relate to the DOE standardized canister, not dual-purpose canisters used for storage of commercial SNF

There are approximately 250 types of DOE SNF. Aluminum-clad and aluminum-based fuel types are highlighted.
Board Report on Transportation

- Identified and evaluated technical issues that need to be addressed by DOE in preparing a nationwide effort to transport SNF and HLW
- The Board analyzed two possible scenarios as basis for its evaluation but made no recommendations on whether either of these options is preferable
  - DOE accepts bare commercial SNF assemblies (i.e., SNF assemblies not sealed inside SNF canisters) from nuclear utilities
  - DOE accepts SNF assemblies pre-packaged in casks or canisters
Board Report on Transportation (cont.)

- The Board did not suggest that repackaging of most SNF in dry-storage would be required prior to removal from nuclear power plant sites.

- The report also includes discussion of DOE analysis of transportation of SNF away from the nuclear power plant sites in the existing casks and canisters.

- The Board recommended that, for planning purposes, DOE should allow for a minimum of a decade to develop new cask and canister designs for SNF and HLW storage and transportation.
BREAK

Information Booths Available
Public Comment

Submit written comments to:

nuccomm@songs.sce.com
CLOSING COMMENTS
DAVID VICTOR AND DOUG BAUDER
## 2020 CEP Meetings

<table>
<thead>
<tr>
<th>Planned Focus Topics</th>
<th>*Timing</th>
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<tbody>
<tr>
<td>SONGS Strategic Plan for Removing Spent and Dismantlement</td>
<td>11-21-19</td>
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<tr>
<td>1Q CEP Meeting</td>
<td>Feb. 27, 2020</td>
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<tr>
<td>Dry Cask Storage Design, Potential Events, &amp; Remedies</td>
<td>Mar. 26, 2020</td>
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<td>2Q CEP Meeting</td>
<td>May 28, 2020</td>
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<td>3Q CEP Meeting</td>
<td>Aug. 20, 2020</td>
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<td>4Q CEP Meeting</td>
<td>Nov. 19, 2020</td>
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* Topics to be determined

Subject to Change
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<th>Acronym</th>
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<td>AMP</td>
<td>Aging Management Program</td>
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<td>Cold &amp; Dark</td>
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<tr>
<td>DA</td>
<td>Decommissioning Agreement; Decommissioning Agent</td>
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<td>Decommissioning Cost Estimate</td>
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<td>DON</td>
<td>Department of Navy</td>
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<td>DSAR</td>
<td>Defueled Safety Analysis Report (replaces FSAR)</td>
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<td>Final Environmental Impact Report</td>
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<td>Fuel Transfer Operations</td>
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<td>GEIS</td>
<td>Generic Environmental Impact Statement</td>
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<td>HI-PORT</td>
<td>Holtec International – (Engineered Low Profile) Transporter</td>
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<td>HI-TRAC</td>
<td>Holtec International – Transfer Cask</td>
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<td>IFMP</td>
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<td>Independent Spent Fuel Storage Installation</td>
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<td>LAR</td>
<td>License Amendment Request</td>
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<td>Large Organism Exclusion Device</td>
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<td>MAPS</td>
<td>Managing Aging Programs in Storage</td>
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<td>MARSSIM</td>
<td>Multi-Agency Radiation Survey Site &amp; Investigation Manual</td>
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<td>Memorandum of Understanding</td>
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<td>Native American Heritage Commission</td>
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<td>NDCTP</td>
<td>Nuclear Decommissioning Cost Triennial Proceeding</td>
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<td>Orange County</td>
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<td>PDEP</td>
<td>Permanently Defueled Emergency Plan</td>
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<td>Permanently Defueled Technical Specifications</td>
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<td>PSDAR</td>
<td>Post-Shutdown Decommissioning Activities Report</td>
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<td>Questions &amp; Answers</td>
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<td>SDG&amp;E</td>
<td>San Diego Gas &amp; Electric</td>
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<td>Spent Fuel Pool Island</td>
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<td>Sea Level Rise</td>
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<td>SONGS</td>
<td>San Onofre Nuclear Generating Station</td>
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<td>TBA</td>
<td>To Be Announced</td>
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<td>Vertical Canister Transporter</td>
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<td>Zion Community Advisor Panel</td>
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APPENDIX
Used Fuel
Readiness for Transportation

- Some fuel qualified for transport now
- Remaining fuel qualifies over time

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