Decommissioning Update

July 23, 2015

Tom Palmisano
Vice President Decommissioning & Chief Nuclear Officer
Decommissioning Principles

Safety  Stewardship  Engagement

For more information on SONGS please visit www.SONGScommunity.com
Decommissioning Update
Decommissioning Plan

20 Year Plan

- **SYSTEM RETIREMENT**: DEC process and procedure revisions to turn off systems
- **IMPLEMENT COLD AND DARK**: Systems de-energized, equipment eliminated, air gapping and temporary powering established
- **DECOMMISSIONING POWER RING**: Temporary powering supplies all equipment for Cold and Dark
- **SPENT FUEL POOL ISLANDING**: Engineering and modification implementation
- **PERMANENTLY DEFUELED TECHNICAL SPECIFICATIONS**: Submitted
- **E-PLAN SUBMITTAL**: Approved
- **IFMP, DCE, PSDAR SUBMITTAL**: Prepared and submitted
- **HISTORICAL SITE ASSESSMENTS & SITE CHARACTERIZATION**: Approved
- **DECOMMISSIONING GENERAL CONTRACTOR**: Develop specifications, issue RFP, award contract, select vendor
- **DGC AWARD**: E-Plan implemented
- **ISFSI PROJECT**: Engineering and procurement
- **ISFSI Permit Amendment**: ISFSI offload campaign
- **ISFSI CANISTER FABRICATION**: All fuel in ISFSI (dry)
- **MAJOR D&D COMPLETE**: 2-year NRC PER REG1-184
- **SAFSTOR WET**: Start decontamination & dismantlement (D&D) 10 years
- **TGCEA Permits**: Radiological D&D, license termination partial site restoration, and MARSSM Plan submitted
- **DGC Startup Activities**: Completion of remaining site restoration work
- **LICENSE TERMINATION PLAN**: Major D&D complete
- **FINAL SITE RESTORATION**: Permit modification to ISFSI only
- **END OF DECOMMISSIONING (except ISFSI)**: Final state requirements for unrestricted land use

Decommissioning San Onofre Nuclear Generating Station  Safety | Stewardship | Engagement
### NRC Submittal Status

<table>
<thead>
<tr>
<th>Submittal</th>
<th>Status</th>
<th>RAI Status</th>
<th>Forecast Approval</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certified Fuel Handler (CFH) Training</td>
<td>Approved August 2014</td>
<td>Complete</td>
<td>Approved</td>
</tr>
<tr>
<td>Tech Spec LAR (Admin Section change to eliminate SRO licenses)</td>
<td>Approved September 2014</td>
<td>Complete</td>
<td>Approved</td>
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<tr>
<td>Exemption for Trust Fund Access</td>
<td>Approved September 2014</td>
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<tr>
<td>Perm Defueled EP Submittals</td>
<td>Approved September 2014</td>
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<tr>
<td>Perm Defueled EP Submittals</td>
<td>Approved June 2015</td>
<td>Complete</td>
<td>Approved</td>
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<tr>
<td>Perm Defueled Tech Specs (PDTS)</td>
<td>Approved July 2015</td>
<td>Complete</td>
<td>Approved</td>
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<tr>
<td>• PSDAR</td>
<td>Submitted to NRC September 2014</td>
<td>None</td>
<td>NRC 90 day review period for PSDAR &amp; DCE completed 12/26/2014</td>
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<tr>
<td>• DCE</td>
<td></td>
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<td>IFMP SER expected 7/31/15</td>
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<td>• IFMP</td>
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<tr>
<td>• Defueled Quality Assurance Plan</td>
<td>Submitted November 2014</td>
<td>Response to RAIs submitted, no additional requests expected</td>
<td>August 14, 2015</td>
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</tbody>
</table>
Industry Initiatives
Department of Energy
Visit to SONGS

- DOE group visited SONGS June 2-5, 2015
- DOE group included:
  - DOE officials
  - Department of Transportation
  - Federal railway administration officers
  - Technical staff
  - DOE national laboratory personnel
- California Energy Commission staff participated
Department of Energy
Visit to SONGS

- Met with outside stakeholders:
  - CEP officers
  - Local officials
  - Railroad representatives
  - Heavy haul companies

- Topics covered
  - Site used fuel storage
  - Site infrastructure
  - Transportation infrastructure

- Revised report to be drafted by DOE Fall 2015
Department of Energy
Revised Report

Preliminary Evaluation of
Removing Used Nuclear Fuel
from Shutdown Sites

Fuel Cycle Research & Development

Prepared for
U.S. Department of Energy
Nuclear Fuels Storage and
Transportation Planning Project
Steven J. Maheras (PNNL)
Ralph E. Best (PNNL)
Steven B. Ross (PNNL)
Kenneth A. Buxton (PNNL)
Jeffery L. England (SRNL)
Paul E. McConnell (SNL)
Lawrence M. Massaro (FRA)
Philip J. Jensen (PNNL)

October 1, 2014
FCRD-NFST-2014-000091 Rev. 1
PNNL-22676 Rev. 4
Consolidated Interim Storage

Skull Valley Goshute Reservation, Utah

- Private Fuel Storage
- Owned by utilities, including SCE
- NRC license issued in 2007 (licensing 1996-2007)
- Significant local and state opposition
- Unlikely ever to be constructed
Consolidated Interim Storage

Andrews County, Texas

• Waste Control Specialists
• Local and state support for facility
• Partnered with Areva
• Initial licensing activities commenced
New Mexico

- Holtec and Eddy Lea Energy Alliance
- Based on Holtec’s UMAX system
- Local and state support for facility
- Initial licensing activities to commence late 2015