



Community Engagement Panel
Overview of SCE's draft EIE and DCE
July 17, 2014

Environmental Impact Evaluation (EIE)

Environmental Impact Evaluation

Basis

- NUREG-0490 SONGS Environmental Impact Statement (EIS), 1981
- NUREG-0586 Generic EIS decommissioning of Nuclear Facilities, 1988
- NUREG 1496 Generic EIS support of Rulemaking for License termination
- 10CFR51.53 Post Construction Environmental Reports (ER)
- Consistent with the planned methods of Dismantlement and Decontamination (D&D) described in the Post-Shutdown Decommissioning Activities Report (PSDAR)

Content

- Done at a level of detail well-beyond that required for inclusion into PSDAR
- All key impacts assessed found to be not detectable or so minor that they will neither destabilize or noticeably alter any important attribute of the resource (does not trigger additional ER or LAR)
- Confirms differences are bounded by the Generic or Existing Environmental Impact Statement

Environmental Impact Evaluation

Definitions:

SMALL

Environmental impacts are not detectable or are so minor that they will neither destabilize nor noticeably alter any important attribute of the resource: (does not trigger additional ER or LAR)

MODERATE

Environmental impacts are sufficient to alter noticeably but not to destabilize important attributes of the resource: (requires additional ER or may potentially require a LAR)

LARGE

Environmental impacts are clearly noticeable and are sufficient to destabilize: (requires additional ER and LAR)

Environmental Impact Evaluation

Key EIE Assumptions Related to Keeping Impacts “Small”:

- Assume that Ocean Conduits will not be removed
- Ensure no blasting will be used in decommissioning
- Maintain existing land ‘use’ (building / zoning) designations
- Limit dewatering to 1000 foot radius from site
- There are no drinking water wells in the area of SONGS
- Comply with existing permits, obtain other permits where required
- Limit excavations to area previously excavated during original construction
- Ensure air quality impacts are minimized (diesel engines)

Environmental Impact Evaluation

Key Impacts Assessed:

	Issue	D&D Activity	EIE Determination
1	Onsite / Offsite Land Use	Use of lands	Small
2	Water Use / Quality	Use of surface or ground water	Small
3	Air Quality	Emissions and dust	Small
4	Aquatic / Terrestrial Ecology	Impact to existing ecologies	Small
5	Threatened & Endangered Species	Impact due to noise, dust, etc.	Small
6	Radiological / Rad Accidents	Occupational & Public dose	Small
7	Occupational Impact	Safety / Injuries	Small
8	Socioeconomics	Staffing and tax impacts	Small

Environmental Impact Evaluation

Key Impacts Assessed Continued:

	Issue	D&D Activity	EIE Determination
9	Environmental Justice	Impact to minority or low income	Small
10	Cultural, Historical, Archeological Resources	Impact to known archeological sites	Small
11	Aesthetics Impacts	Final site as-left configuration	Small
12	Noise	Noise above existing Trains / I-5, etc.	Small
13	Transportation	Shipments from / to site	Small
14	Irreversible and Irretrievable Commitment of Resources	Consuming materials (gasses, fuel, solvents, etc.)	Small

Summary of Sections ES 4.1 through ES 4.18 in EIE

Decommissioning Cost Estimate (DCE)

Decommissioning Cost Estimate

Basis

- 10CFR50.75(c), 10CFR72.30, 10CFR50.54(bb)
- EnergySolutions estimating model and data
- SONGS-specific walk down validation for quantities

Structure

- Discusses the Decommissioning Plan
- Assurance of the Adequacy of Funding
- Provides Total Cost by Period
- Plan for Adjusting Funding
- Summarizes the Costs of Services
- Summarizes Undistributed Costs
- Outlines Costs For:
 - Spent Fuel Management
 - License Termination
 - Site Restoration

Decommissioning Cost Estimate

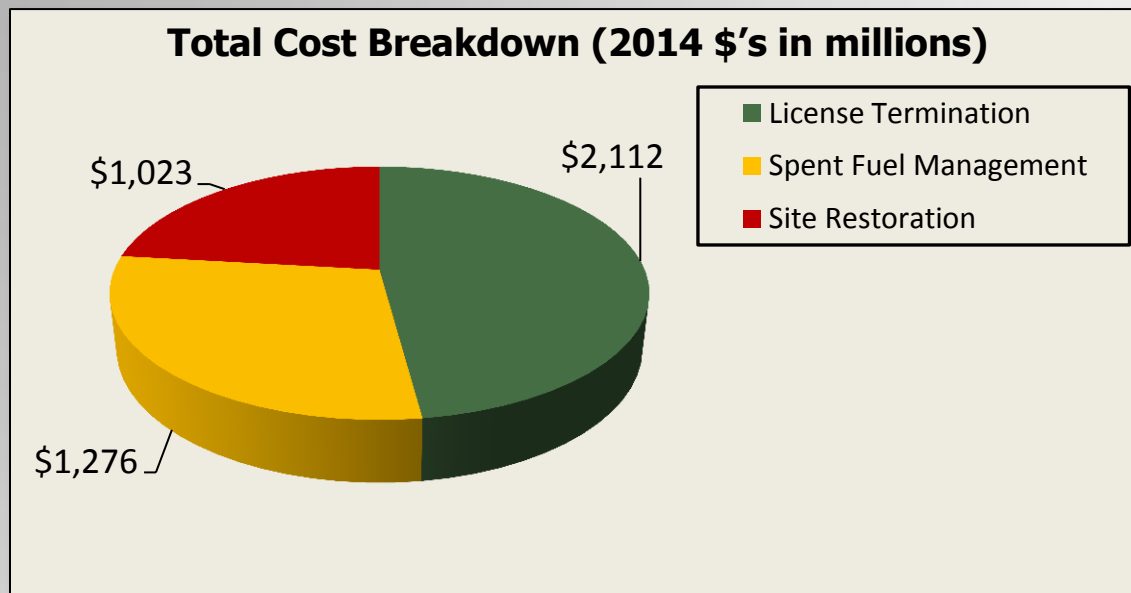
Key Assumptions:

Assumption	DCE Assumption
Date Fuel is out of Spent Fuel Pool	June 2019
DOE Performance Start Date	2024
Pool Islanding Date	June 2015
Substructure Excavation	All Substructures Removed
Duration of D&D	10 Years
Contingency	25% (22.8% weighted)
Ocean Conduits	Remove
Treatment of Class A Waste	No Class A Waste Exempt
Start of D&D	January 2016
Low Level Waste Burial Cost Escalation	D&D - CPI Post - D&D 7.33%

(From Ben Slides 7&10)

Decommissioning Cost Estimate Breakdown

- **Total Cost = \$4.411B (2014 \$'s, 100% Level)**



- Description of Cost Categories:
 1. License Termination (50.75): Decommissioning planning through reactor and other plant system dismantlement & decontamination (D&D)
 2. Spent Fuel Management (50.82): Transfer of spent fuel into and management of dry cask storage, and ultimate demolition of the ISFSI
 3. Site Restoration Costs: Clean building demolition and site grading

Preview of Regular Meeting

Agenda:

- Review of draft Decommissioning Cost Estimate and Environmental Impact Evaluation covered at workshop
- Focus on SCE's draft Post-Shutdown Decommissioning Activities Report

Date/Location:

- August 14 from 6:00-9:00 p.m.
- QLN Conference Center, Da Vinci Room

Pre-read material:

- SCE's draft DCE submittal
- SCE's draft PSDAR submittal
- SCE's EIE (summarized in PSDAR)