Diablo Canyon Decommissioning Engagement Panel Meeting

**Date/Time:** 6-27-18 / 6:00 PM – 9:30 PM  
**Facilitator:** Chuck Anders

**Meeting Location:** 1055 Monterey Street, SLO: County Government Offices  
**Recorder:** Brandy Lopez

**Webcast:**  
[www.slo-span.org](http://www.slo-span.org)

**TV Broadcast:**  
Channel 21 (Charter)

**Purpose:** Receive information from PG&E on the DCPP decommissioning process/timetable and provide direct input to PG&E on behalf of the local community.

**Desired Outcomes:**

*By the end of today’s meeting, The Panel will:*

- Understand the decommissioning project’s regulatory, planning and execution processes;
- Provide comments and ask questions after each presentation;
- Review public outreach metrics;
- Conduct multi-channel public comment process (written, digital, verbal, online options); and
- Record actions and evaluate the meeting.

**AGENDA**

<table>
<thead>
<tr>
<th>Item #</th>
<th>What – Content</th>
<th>Action Path</th>
<th>Who</th>
<th>Target Start Time</th>
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</table>
| 1.    | Open House - Poster Session (Q & A) | • Inform  
• Discuss  
• Record comments | All | 6:00 PM |
| 2.    | Safety Minute (911, AED, CPR) | • Consensus | PG&E | 7:00 PM |
| 3.    | PG&E welcome and opening remarks | • Present | Franke | 7:03 PM |
| 4.    | Panel Introduction | • Present | Anders/Panel | 7:08 PM |
| 5.    | Review Meeting Agenda, Introduction of Decommissioning Topic, and Desired Outcomes | • Present | Anders | 7:13 PM |
| 6.    | Regulatory overview  
• Presentation  
• Panel question and responses | • Present  
• Discuss | Toy Panel/P&G &E | 7:18 PM  
7:26 PM |
| 7.    | Planning overview  
• Presentation  
• Panel questions and responses | • Present  
• Discuss | Nelson Panel/P&G &E | 7:36 PM  
7:44 PM |
| 8.    | Approvals and future state overview  
• Presentation  
• Panel questions and responses | • Present  
• Discuss | Jones Panel/P&G &E | 7:54 PM  
8:02 PM |
| 9.    | Project execution overview  
• Presentation  
• Panel questions and responses | • Present  
• Discuss | Sharp Panel/P&G &E | 8:12 PM  
8:20 PM |
| 10.   | Break | • Discuss | All | 8:30 PM |
| 11.   | Review of Public Comment and Metrics | • Present | Anders | 8:40 PM |
| 12.   | Public Comment (Comment Slip Closed at 8:00 p.m.) | • Discuss  
• Record | All | 8:45 PM |
| 13.   | Panel discussion and actions | • Present  
• Record | Panel/Jones | 9:15 PM |
| 14.   | Introduce next meeting topic (Costs of Decommissioning) | • Present | Jones | 9:20 PM |
| 15.   | Meeting Summary and (+/Δ) | • Discuss  
• Record | Anders | 9:25 PM |
| 16.   | Adjourn Meeting* | • Action | Anders | 9:30 PM |

*PG&E staff will remain on-premises after the meeting to answer additional questions*
### Meeting Evaluation

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### Action Items

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Safety Moment

- AED
- CPR
- Call 911
- Meet and Guide Emerg. Personnel
- Evacuation Plan
- Earthquake ‘Duck, Cover, Hold’
- Active Shooter ‘Get Out, Hide Out, Take Out, Call Out’
Welcome from
Jon Franke
PG&E Vice President of Power Generation

June 27, 2018
Diablo Canyon Decommissioning Engagement Panel
## Agenda Review

### Wednesday, June 27

<table>
<thead>
<tr>
<th></th>
<th>Session</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>1</td>
<td>Regulatory Process</td>
<td>Deanna Toy / Panel</td>
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<tr>
<td>2</td>
<td>Planning</td>
<td>Eric Nelson / Panel</td>
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<tr>
<td>3</td>
<td>Approvals &amp; Future State</td>
<td>Tom Jones / Panel</td>
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<tr>
<td>4</td>
<td>Project Execution</td>
<td>Loren Sharp / Panel</td>
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<tr>
<td>5</td>
<td>Break (8:30 PM - 8:40 PM)</td>
<td>All</td>
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<tr>
<td>6</td>
<td>Review Public Comments</td>
<td>Chuck Anders</td>
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<tr>
<td>7</td>
<td>Public Comment Session</td>
<td>All</td>
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<tr>
<td>8</td>
<td>Panel Discussion &amp; Actions</td>
<td>Panel / Tom Jones</td>
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<tr>
<td>9</td>
<td>Next Meeting Topic</td>
<td>Tom Jones</td>
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<tr>
<td>10</td>
<td>Meeting Summary/Evaluation</td>
<td>Chuck Anders</td>
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<tr>
<td>11</td>
<td>Adjourn (9:30 PM)</td>
<td>Chuck Anders</td>
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## Tonight’s Presenters

### Wednesday, June 27

<table>
<thead>
<tr>
<th></th>
<th>Name</th>
<th>Position</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>Deanna Toy</td>
<td>PG&amp;E Director, CPUC Electric Proceedings</td>
<td>Regulatory Process</td>
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<tr>
<td>2</td>
<td>Eric Nelson</td>
<td>PG&amp;E Director, Diablo Canyon Decommissioning</td>
<td>Planning</td>
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<tr>
<td>3</td>
<td>Tom Jones</td>
<td>PG&amp;E Director, Strategic Initiatives</td>
<td>Approvals &amp; Future State</td>
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<tr>
<td>4</td>
<td>Loren Sharp</td>
<td>PG&amp;E Sr. Director, Nuclear Decommissioning</td>
<td>Project Execution</td>
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Decommissioning Regulatory Process

Deanna Toy
June 27, 2018
What is the CPUC?

California Public Utilities Commission (CPUC)

- Regulates services and utilities, safeguards the environment, and assures access to safe and reliable utility infrastructure and services

California Nuclear Facility Decommissioning Act of 1985

- Utilities to establish tax-qualified nuclear decommissioning trust funds (NDTF)
- CPUC reviews nuclear decommissioning (ND) cost estimates and assumptions periodically
What is the NDCTP?

Nuclear Decommissioning Cost Triennial Proceeding (NDCTP)

- Established by CPUC to examine ND issues
- Filed every three years
- Establishes annual revenue requirement for ND expense over a three-year period
- Previous NDCTP for Diablo Canyon was filed in March, 2016; next NDCTP will be filed in March, 2019
NDCTP includes:

- Decommissioning cost estimate (DCE) and updated assumptions
- Review of decommissioning projects completed since previous NDCTP filing
- NDTF rate of return assumptions and funding requirements
NDCTP Process & Example Timeline

- Application Filed: Month 0
- Pre-Hearing Conference: Month 1
- Technical Workshop*: Month 5
  - Pre-Hearing Conference: Month 3
  - Technical Workshop: Month 4

- Protests and Responses Filed
- Scoping Memo Issued
- Evidentiary Hearings: Month 6
- Proposed Decision Issued: Month 7
- Openings & Reply Briefs: Month 13
- Decision Approved: Month 14

*Scheduled for 2015 NDCTP application
Decommissioning Regulatory Process

- There is a robust and transparent CPUC process to ensure there is adequate funding for decommissioning Diablo Canyon Power Plant
Thank you

Deanna Toy
Deanna.Toy@pge.com
Panel Questions & Responses
Site-specific decommissioning cost estimate development

• PG&E’s preferred approach is DECON over SAFSTOR

“Bottom up” approach

• Industry subject matter experts
• Third-party reviews
• Engagement panel and public input

DECON: immediate dismantlement
SAFSTOR: deferred dismantlement
2018 - 2024 NDCTPs

2018 NDCTP approval results in:
• Detailed project descriptions for permitting
• Proceeding with Nuclear Regulatory Commission (NRC) licensing efforts

2021 NDCTP
• Updated with available results of licensing, permitting, and repurposing approvals

2024 NDCTP
• Last update prior to licenses expiring
• Will include results from issued permits (e.g., permitting conditions) and licensing approvals
Decommissioning planning

• PG&E is engaging the public, the industry, and third-party reviews to build a successful decommissioning plan

• After the 2018 NDCTP, two additional NDCTPs will be filed ahead of license expiration, which will allow us to update the plan and cost estimate

• PG&E’s preferred approach is DECON
Thank you

Eric Nelson
Eric.Nelson@pge.com
Panel Questions & Responses
Decommissioning Approvals & Future State

Tom Jones
June 27, 2018
California Environmental Quality Act (CEQA) objectives

- Provide information to the public agencies and decision-makers
- Identify ways to avoid or reduce through alternatives and mitigation
- Environmental Impact Report (EIR): CEQA document used to communicate potential impacts, alternatives, and mitigations to the public
- Public participation occurs throughout CEQA process
Main Regulatory Drivers

California Coastal Act

- California Coastal Commission (CCC) was established in 1972 by voter initiative
- 1976 Coastal Act tasked the CCC to protect coastal resources, including public access
- SLO County has a Local Coastal Program (LCP) certified by the CCC
- Coastal Development Permit (CDP) authority transferred to local government
- CCC retains original permit jurisdiction over tidelands, submerged lands, and public trust lands
Project-level analysis

• Addresses project-level impacts associated with the proposed project with a high degree of specificity
• Requires a detailed project description (construction-level) for various aspects and logistics of the entire project
• After certification of the EIR by the lead agency, subsequent permits for the project may be obtained
  • SLO Air Pollution Control District permits to operate / authority to construct
• Permits must be found consistent with EIR
Program-level analysis

- Considers broad policy alternatives and program-wide mitigation measures
- May not address site-specific impacts of individual projects
- Used when only a conceptual framework for project details is available
- Subsequent CEQA documents and CDP submittals may be required as specific project details are formulated
Important Considerations

• CEQA regulations prohibit a “piecemeal” review of the potential significant environmental impacts of a proposed project
  • All potential impacts for a project must be described at a “project” or “program” level
• The CDP is a CEQA alternative under California law
Project Phasing

Submittal 1: Pre-Planning and Decommissioning

Submittal 2: Potential Breakwater Demolition

2020 2025 2030 2035 2040 2045

Approval Phase

Project Level Description (Project Execution)

Program Level Description

April 2020
CDP #1 Submittal

January 2030
CDP #2 Submittal

CDP #1 Submittal

CDP #2 Submittal
Project Phasing

Submittal 1: Pre-Planning and Decommissioning

April 2020 CDP #1 Submittal

January 2030 CDP #2 Submittal

Submittal 2: Potential Breakwater Demolition and ISFSI Only

January 2060 CDP #3 Submittal

Submittal 3: ISFSI Demolition and Restoration

Program Level Description

Project Level Description (Project Execution)

Approval Phase

Approval Phase

Approval Phase

2020 2025 2030 2035 2040 2045 2050 2055 2060 2065 2070 2075
Site Overview: Diablo Canyon Looking East

- Old Steam Generator Storage Facility
- Dry Cask Storage
- 500 KV Yard
- 230 KV Yard
- Power Block
- Intake
- Breakwater

Submittal 1: 2020
Submittal 2: 2030
Submittal 3: 2060
NDCTP Process Unlocks Permitting Actions

• Funding approvals allow for a project description to be developed for CEQA/CDP permitting path
• CEQA process allows for an evaluation of alternatives (i.e. repurposing)
• San Onofre draft EIR to be issued Q2 2018 for 60-day public comment period
Thank you

Tom Jones
Tom.Jones@pge.com
Panel Questions & Responses
Decommissioning Project Execution

Loren Sharp
June 27, 2018
Benchmarking

Direct experience
• Humboldt Bay Power Plant

Benchmarking trips
• Other decommissioning sites

San Onofre Nuclear Generating Station (SONGS)
• Learnings from decommissioning activities
Decommissioning Activities

Spent fuel movement
  • 2024 – 2032

Site modifications
  • Spent fuel pool island
  • Cold and dark power
  • Temporary site infrastructure changes

Building demolition
  • 2026 – 2034
  • Begin with non-nuclear buildings
Transportation of waste
- Potential trucking to Pismo Beach, then transfer to rail

Final site surveys
- Requires NRC approval of methodology through License Termination Plan

Site restoration
- Returns existing grade to natural contour

Re-vegetation
- Multi-year monitoring
Decommissioning execution

• Direct experience, industry benchmarking, and learnings from SONGS will help inform a successful project execution plan
• With requisite approvals, active decommissioning can begin shortly after power plant operating license expiration
Thank you

Loren Sharp
Loren.Sharp@pge.com
Panel Questions & Responses
Break
10 minutes
Pathways for Public Input

- Public meetings
- Public workshops
- Public comment at meetings
- Public comment kiosk
- Panel website
- Email the panel
- In-person discussions

Engagement Panel

PG&E

PG&E’s Decommissioning Estimate to CA Public Utilities Commission
Public Comments & Questions

MAY-JUNE 2018

- Repurposing: 8
- Lands: 3
- Transportation: 3
- Environmental Impact: 4
- Economic Impact: 2
- Funding: 0
- Safety: 0
- Security: 0
- Community Outreach: 2
- Other: 1
Public Comments & Questions

Diablo Canyon Decommissioning Engagement Panel Comments by Topic (as 6/18/2018)

- Community Outreach Process: 2 (Comment Form), 1 (Comment to Panel Member)
- Decommissioning Funding: 1 (Comment Form), 1 (Comment to Panel Member)
- Economic Impacts of Decommissioning: 1 (Comment Form), 1 (Comment to Panel Member), 1 (Public Comment at Panel Meeting)
- Environmental Impacts: 2 (Comment Form), 2 (Comment to Panel Member)
- Lands (Use of Lands, Public Access): 2 (Comment Form), 1 (Public Comment at Panel Meeting)
- Other - Business Plan: 1 (Comment Form), 1 (Comment to Panel Member)
- Repurposing of Facilities (Harbor/ Island): 2 (Comment Form), 4 (Comment to Panel Member), 2 (Public Comment at Panel Meeting)
- Transportation: 3 (Comment Form), 2 (Comment to Panel Member), 2 (Public Comment at Panel Meeting)
# Public Comment Session

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Panel Discussion & Actions
July 25 Topic: Decommissioning Costs
Meeting Evaluation
Thank you

We’re available now to answer additional questions
Appendix

• 50: Submittal 1, Scopes of Work
• 51: Submittal 2 & 3, Scopes of Work
• 52: Decommissioning Planning Path
## Submittal 1: Scopes of Work

<table>
<thead>
<tr>
<th>Project Level Analysis:</th>
<th>Program Level Analysis:</th>
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<tbody>
<tr>
<td>Cold and Dark</td>
<td>Potential Breakwater Demolition</td>
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<td>Spent Fuel Pool Island</td>
<td>Potential Breakwater Restoration</td>
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<td>Unit 1 and 2 Spent Fuel Cooling</td>
<td>Diablo Creek Restoration</td>
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<td>Spent Fuel and GTCC Waste to ISFSI</td>
<td>ISFSI Demolition</td>
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<td>Site Infrastructure Modifications</td>
<td>ISFSI Restoration</td>
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<td>Building Demolition</td>
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<td>Site Restoration</td>
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<td>Intake and Outfall Structure Demolition</td>
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<td>230kV Switchyard Removal</td>
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### Submittal 2: Scopes of Work

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<td>ISFSI Demolition</td>
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<td>Diablo Creek Restoration</td>
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<td>Final Site Restoration</td>
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### Submittal 3: Scopes of Work

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<td>ISFSI Restoration</td>
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