



Decommissioning **San Onofre** Nuclear Generating Station

Decommissioning Update

November 5, 2015

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Decommissioning
San Onofre
Nuclear Generating Station

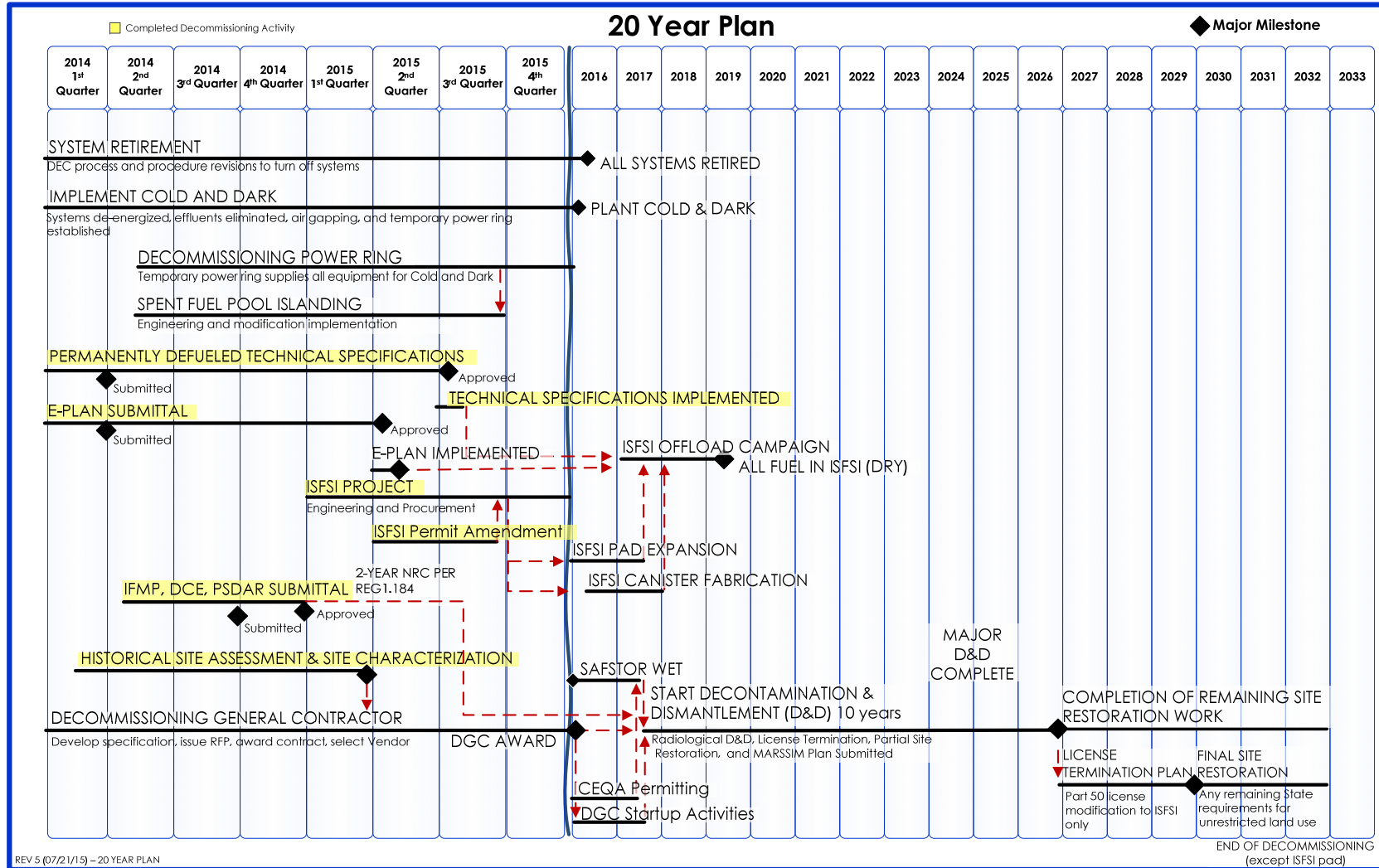
Decommissioning Principles

Safety
Stewardship
Engagement

***For more information on SONGS
please visit www.SONGScommunity.com***

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Decommissioning Plan





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Nuclear Generating Station

NRC LICENSING

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NRC Activities

Activity/Submittals	Status
<ul style="list-style-type: none"> • PSDAR • DCE • IFMP 	PSDAR & DCE Accepted IFMP SER Approved
Defueled Quality Assurance Plan Submittal	Approved
Inspections: 50.59, Corrective Action Program, 3 rd Quarter Decommissioning Activities, Security Access Authorization	Complete
Defueled Emergency Plan	Complete
Defueled Technical Specification	Complete
Cyber License Amendment Report – Milestone 8	Complete
License Amendment Request for Spent Fuel Pool cooling system	Forecast March 2016
Records Retention Exemption Request Submittal	August 2016
Insurance Exemption (Offsite) Request Submittal	September 2016
Insurance Exemption (Onsite) Request Submittal	October 2016



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PROJECT UPDATE

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Cold & Dark

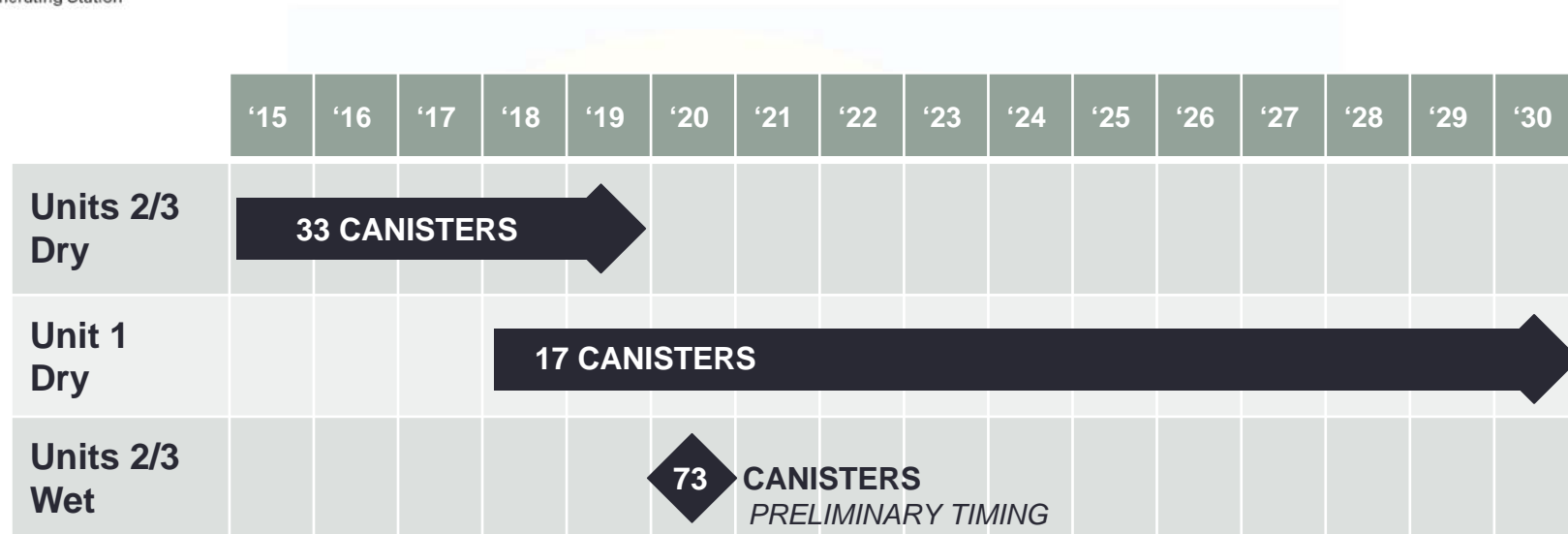
- Cold & Dark (C&D) means de-energizing the plant and draining and isolating plant systems not required for a shutdown condition
- Removes remaining hazards from the plant
- Places the plant in a safe condition for a non-operating configuration
- Prepares the plant for its eventual safe decommissioning while protecting the used fuel



Cold & Dark

- All permitting approved
- All major equipment on-site
- Construction started in April 2015
- Approximately 35% complete
- Construction will complete in March 2016
- Plant C&D in 2nd quarter 2016

ISFSI Offload Fuel Readiness for Transportation



- Some fuel qualified for transport now
- Other fuel qualifies over time
- Full transfer estimated at 10 years



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ENVIRONMENTAL PERMITTING

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California Coastal Commission

- On August 13, CCC approved Coastal Development Permit (CDP) for Spent Fuel Pool Island Project
- On October 6, CCC approved CDP for Independent Spent Fuel Storage Installation (ISFSI) Expansion Project
- CDP application for the decommissioning project expected to be filed by 3Q 2016



California Environmental Quality Act

- State Lands Commission application and California Environmental Quality Act (CEQA) review for decommissioning to commence November 2015
 - CEQA triggered by application for amending conduits lease for (1) partial removal, and (2) extension
 - Will evaluate both onshore and offshore activities



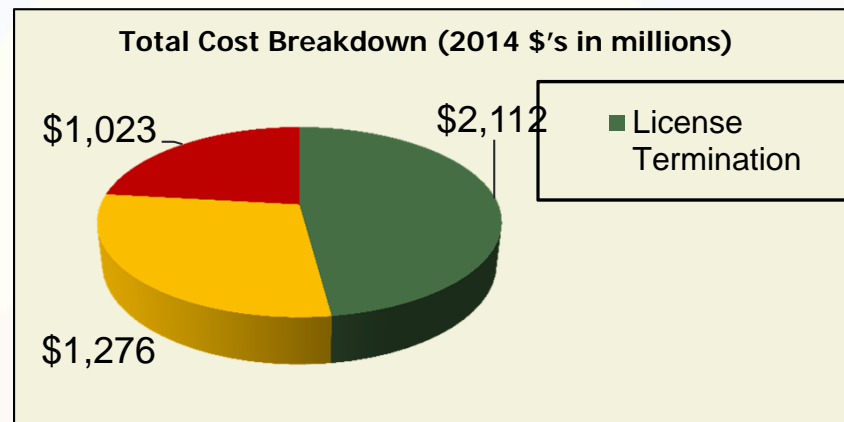
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DECOMMISSIONING COST ESTIMATE

Decommissioning Cost Estimate Breakdown

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



Description of Cost Categories:

1. License Termination: Decommissioning planning through reactor and other plant system D&D
2. Spent Fuel Management: 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



Trust Fund and Regulatory Oversight

Regulatory Oversight of Decommissioning Trusts

- CPUC regulates all spending from the Nuclear Decommissioning Trust, including review, approval and reasonableness
- NRC regulates all radiological decommissioning
- NRC regulates spent fuel management
- Unused funds will be returned to ratepayers



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EMERGENCY PLANNING FUNDING

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Emergency Planning Funding

- SCE committed to maintain funding for off-site emergency planning for local jurisdictions
- State eliminated funding mechanism
- SCE worked with local jurisdictions to restore
- 7-year term with 2-year glide-down
- Fully executed by 10/30/2015
- Effective 7/1/2015

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Funding Summary

- Historical annual funding
 - State and local \$2.8 million total
 - Local only \$1.7 million
- Restored funding for local jurisdictions only

Funding Schedule								
Phase	MOU #1					MOU #2		
	Near-term Levels					Glide-down Levels		Funding levels for years 8 and beyond TBD per successor MOU
	At 100%* while fuel remains in Spent Fuel Pools years 1-5 (currently projected through 2019)					Year 6 at 75%	Year 7 at 50%	
FY	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023 and beyond

2016 CEP Curriculum Preferred Topics?



CEP MEETING TOPICS	
Focus	Timing
	1Q
	2Q
	3Q
	4Q

Public Meetings

Description	Timing
California Coastal Commission Meeting in Long Beach with Agenda Item to Consider Coastal Development Permit for Proposed ISFSI Expansion	10/6/15
California Regional Water Quality Control Board, San Diego Regional Public Workshop on SONGS Waste Discharge Requirements	10/15/15
California Regional Water Quality Control Board, San Diego Regional Board, Agenda Item to Consider adoption of the Tentative Order at its regular Board Meeting at the San Diego Regional Water Board Meeting Room, 2375 Northside Drive, San Diego, California.	9:00 a.m. 12/16/15