



Decommissioning **San Onofre** Nuclear Generating Station

Decommissioning Update

March 24, 2016

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Chief Nuclear Officer



Decommissioning
San Onofre
Nuclear Generating Station

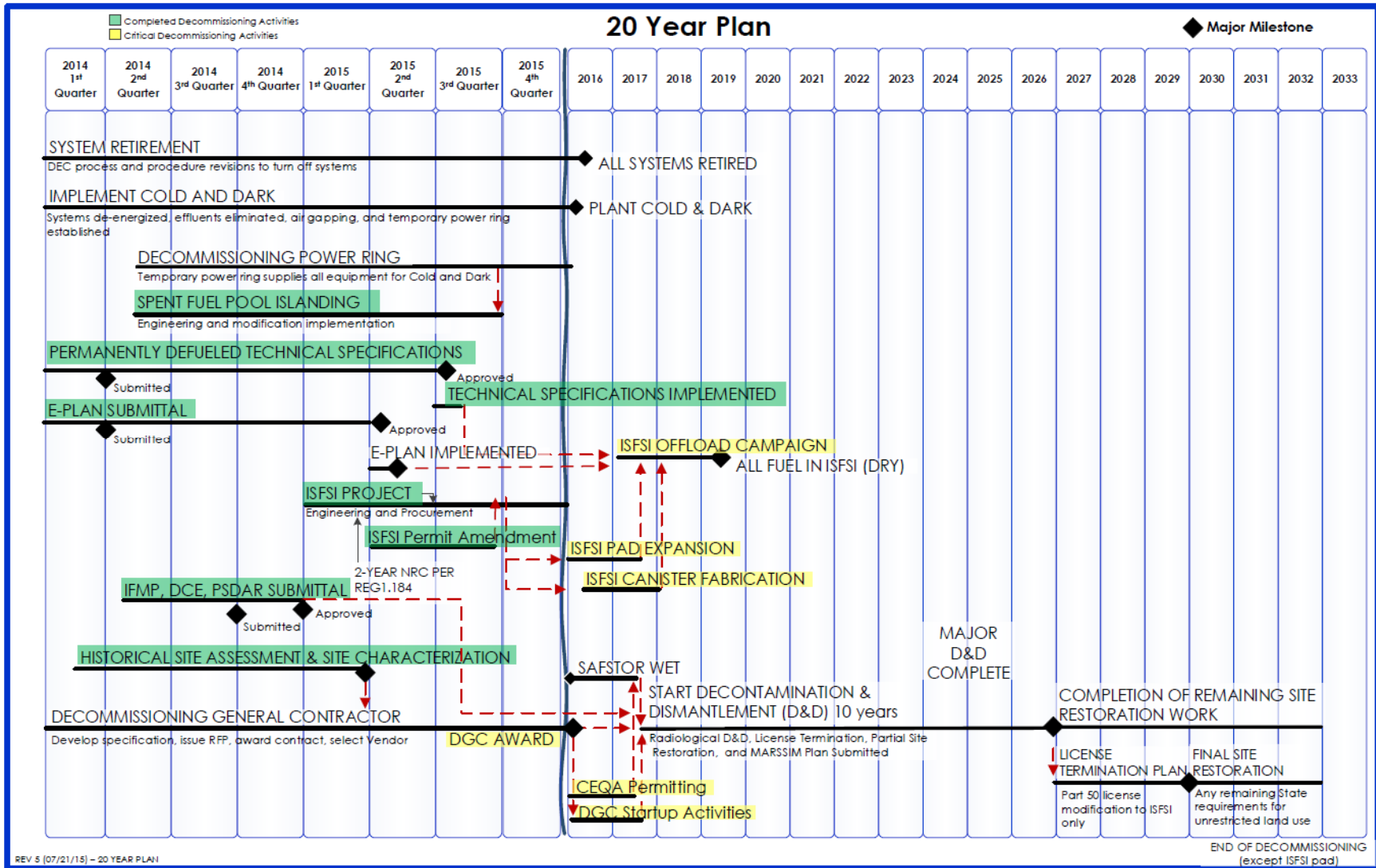
Decommissioning Principles

Safety
Stewardship
Engagement

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

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Decommissioning Plan





Decommissioning
San Onofre
Nuclear Generating Station

NRC



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Decommissioning
San Onofre
 Nuclear Generating Station

NRC Licensing

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	Completed – March 11, 2016
Records Retention Exemption Request Submittal	March 2016
Insurance Exemption (Offsite) Request Submittal	June 2016
Insurance Exemption (Onsite) Request Submittal	June 2016



NRC Inspections

- NRC continues to conduct inspections to ensure decommissioning activities are being conducted safely and compliantly.
- Inspections review the station's effectiveness in the following areas:
 - Safety Reviews, Design Changes & Modifications
 - Controls
 - Decommissioning Performance & Status
 - Effluent and Environmental Monitoring
 - Protection of Radioactive Material



NRCs Decommissioning Rulemaking

- Amend current regulations to support a more efficient decommissioning process
 - Some regulations do not differentiate between operating and decommissioning plants
 - Use of exemption process
- Extended public commenting period ended March 18



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SITE ACTIVITIES UPDATE

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Preparing Plant for Decommissioning

- Cold & Dark (C&D) is de-energizing the plant and draining and isolating plant systems not required
- 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
- Preparations complete by July 2016



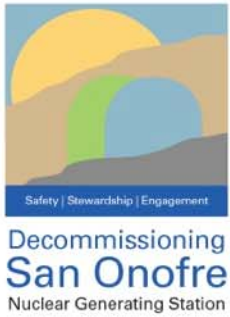
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ISFSI PROJECT UPDATE

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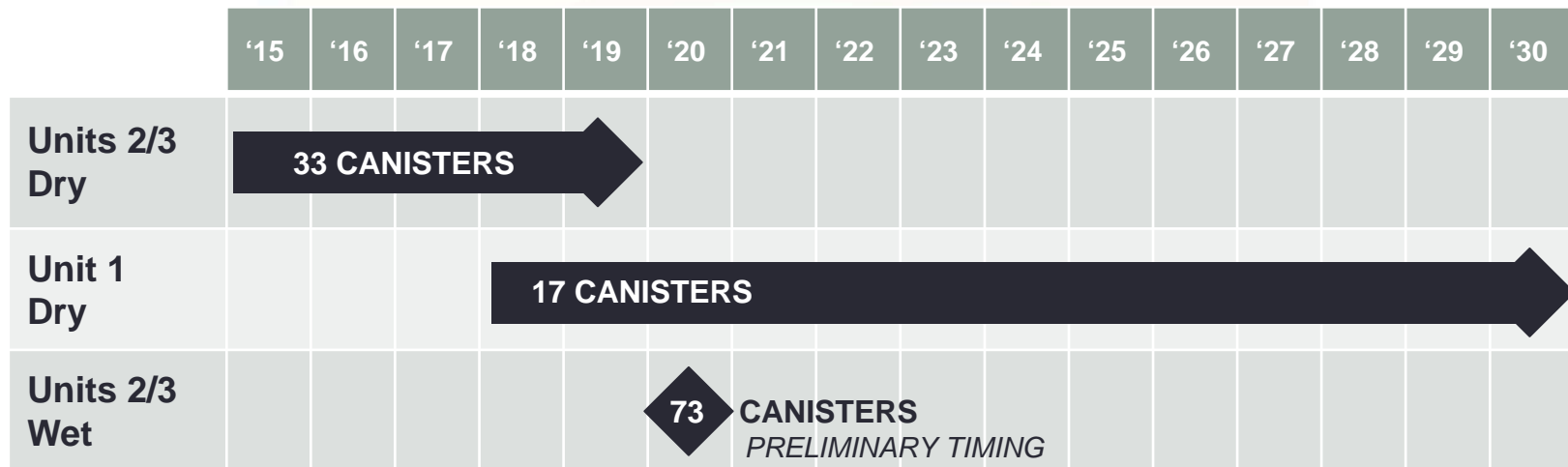


ISFSI Project Update

- Project Initiated.....Fall 2015
- Construction scheduled to complete.....Mid 2017
- Fuel Offload to startEnd of 2017
- All Fuel on ISFSI.....Mid 2019

Fuel Readiness for Transportation

- Transfer estimated at 10 years from start to finish
- Some fuel qualified for transport now
- Other fuel qualifies over time





DOE Activities

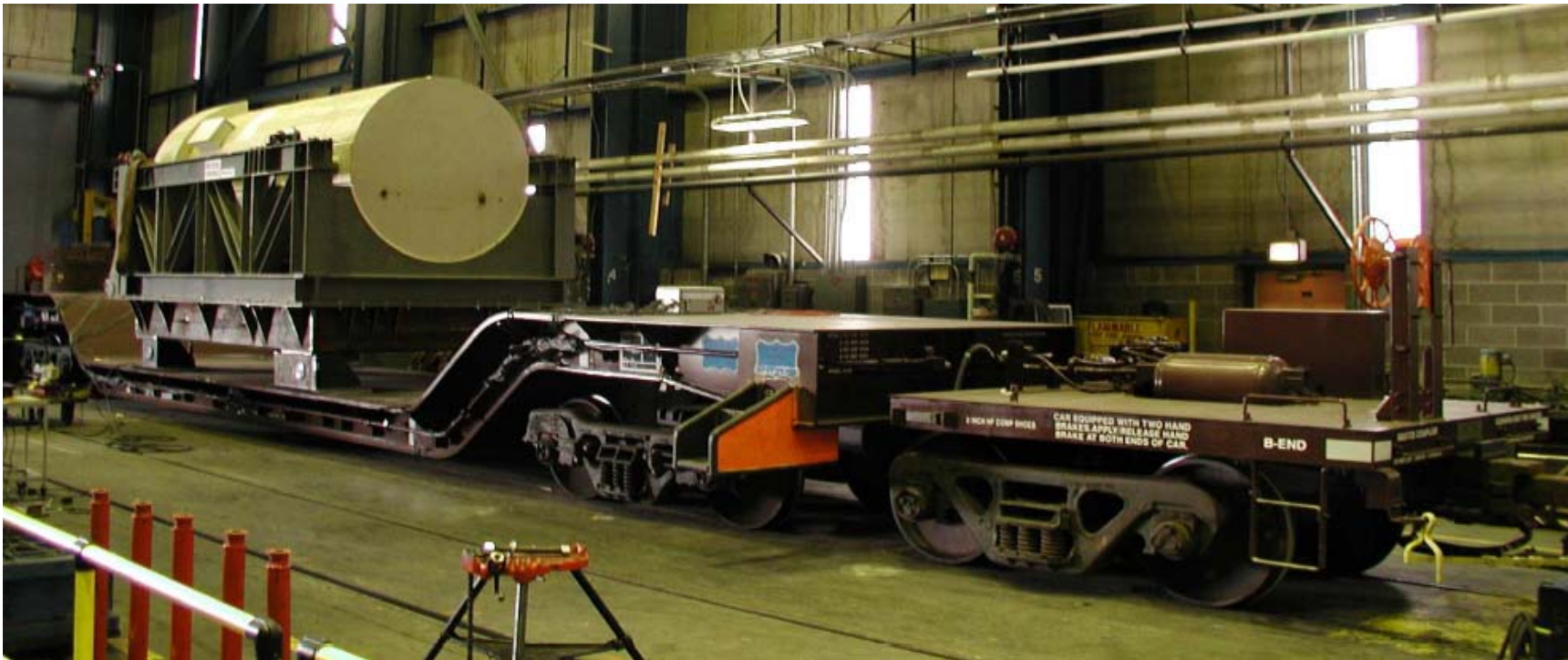
- DOE Consent-based Siting Public Meetings

March 29	Chicago, Illinois
April 11	Atlanta, Georgia
April 26	Sacramento, California
Late May	Denver, Colorado
June	Boston, Massachusetts
June	Tempe, Arizona
July	Boise, Idaho
July	Minneapolis, Minnesota

For more information:

- <http://energy.gov/ne/consent-based-siting>

DOE Concept Rail Car



- Awarded \$8.63 million fixed price contract to AREVA Federal Services on August 21, 2015 for development of cask and buffer railcars

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DOE Remarks on Private Storage

- DOE would like to advance storage (public or private) to remove fuel from shutdown reactors
- DOE sees a role for private storage
- Private storage would allow for an accelerated schedule, more flexibility and firm costs
- If private storage facility is approved/licensed by NRC, DOE is prepared to work with them
- Agrees that even if Yucca Mountain is opened, capacity at other storage sites is needed



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DECOMMISSIONING VS OPERATIONS ECONOMIC OUTPUT

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Economic Impact Comparison

- Decommissioning FTEs are 17% of those employed during operation
- Decommissioning Labor Income is 12% of the Labor Income during operation
- Decommissioning Total Output is 9% of the Total Output during operation