

SONGS DECOMMISSIONING UPDATE AND PARTICIPATION IN THE ACTION FOR SPENT FUEL SOLUTIONS NOW COALITION

Public Utilities Department

City Council
September 21, 2021

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1

BACKGROUND

1. San Onofre Nuclear Generating Station (SONGS) is located on US Navy land at Marine Corps Base Camp Pendleton
2. Riverside's ownership share is 1.79%
3. Units 2 & 3 generated 2,250 MW of emissions-free electricity from 1983 to 2013



2



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2

SONGS DECOMMISSIONING

1. Southern California Edison (SCE) = Decommissioning Agent
2. SONGS Decommissioning Agreement approved in 2015
 - a. Governance provides Riverside with equal vote on major decisions
3. Decommissioning Cost Estimate updated every 3 years and is increasing
 - a. 2014 Estimate: \$4.411 billion in 2014 dollars
 - b. 2017 Estimate: \$4.479 billion in 2014 dollars
 - c. 2020 Estimate currently is being developed for submittal in late 2021



3

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3

RIVERSIDE'S DECOMMISSIONING FUNDS

Nuclear power plants are required by NRC to set aside funds during operations to cover eventual decommissioning costs

Restricted Trust Fund

- Balance before decommissioning = \$79 million
- Use of fund began in 2016 for Riverside's share of decommissioning costs
- Fund balance ~\$49 million, as of June 30, 2021

Unrestricted Designated Reserve

- Established in the Electric Fund for additional unforeseen decommissioning liabilities
- Current funding = \$2 million per year
- Fund balance ~\$14 million, as of June 30, 2021



4

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4

THREE-PHASE DECOMMISSIONING PROJECT

Decommissioning work is organized in major phases		
Phase I	Transition and planning	January 2017 - August 2020
Phase II	Decontamination and dismantlement	August 2020 - ~2028
Phase III	Transfer spent fuel offsite and final site restoration	~2035 - 2053



5

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5

GUEST SPEAKER

Manuel Camargo

Principle Manager, Strategic Planning
SCE/SONGS



6

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6

DECOMMISSIONING PRINCIPLES

SAFETY

STEWARDSHIP

ENGAGEMENT

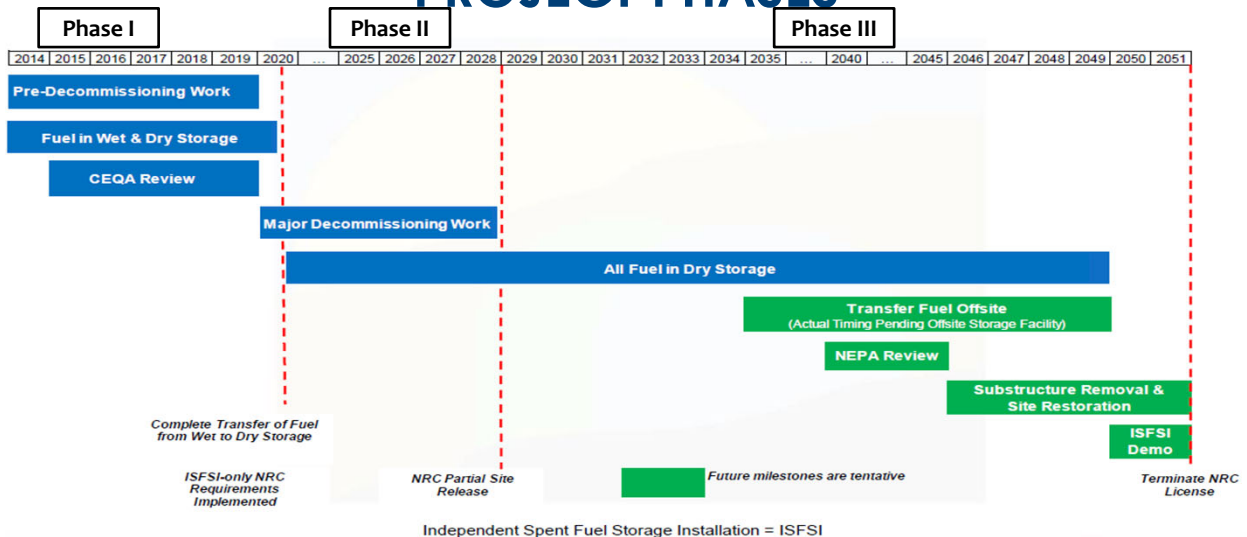


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7

7

PROJECT PHASES



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8

8

PHASE I: TRANSITION AND PLANNING

1. September 2014: Decommissioning submittals filed by SCE with NRC
2. December 2016: Selected SONGS Decommissioning Solutions (SDS) as the Decommissioning General Contractor (DGC)
3. January 2017: SDS mobilized to begin detailed planning for Phase II decontamination and dismantlement
4. October 2019: Completed state environmental permitting process need to commence with Phase II

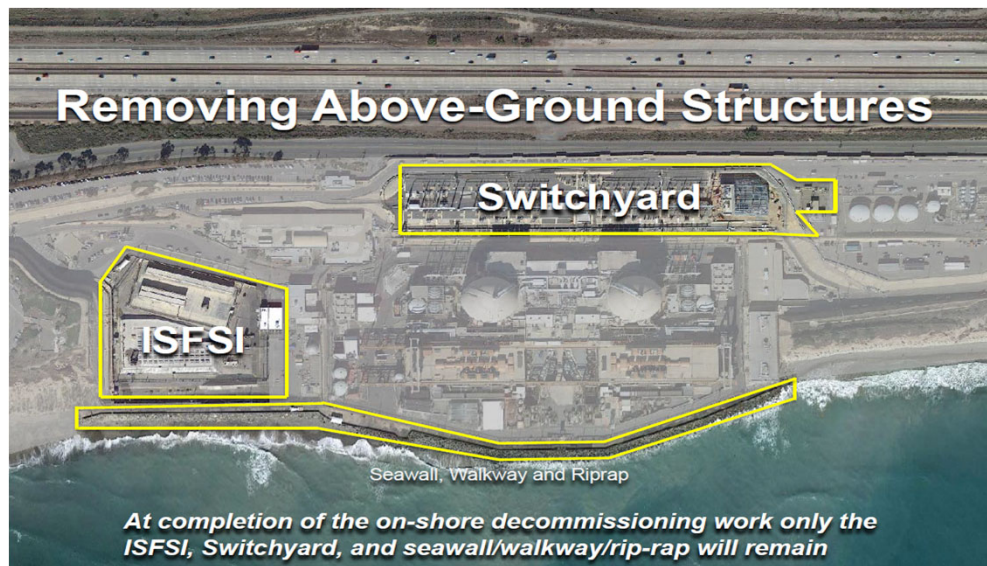


9

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9

PHASE II: DECONTAMINATION AND DISMANTLEMENT

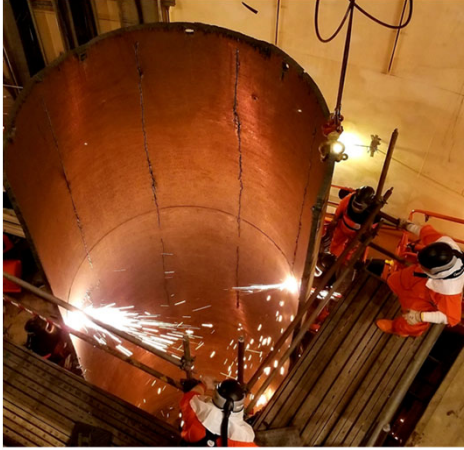


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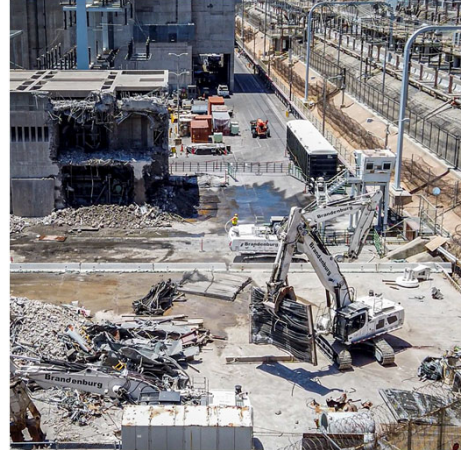
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10

PHASE II: CURRENT DISMANTLEMENT WORK



Work inside containment domes



Outside work to clear space



11

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11

PHASE II: IMAGE OF THE FUTURE



12

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12

PHASE III: TRANSFER SPENT NUCLEAR FUEL OFFSITE AND FINAL SITE RESTORATION

~January 2029 – December 2053

1. Transfer spent fuel to a federally licensed offsite facility
2. Establish final site restoration requirements to return land to Navy
3. Procure a contractor to perform final site restoration work

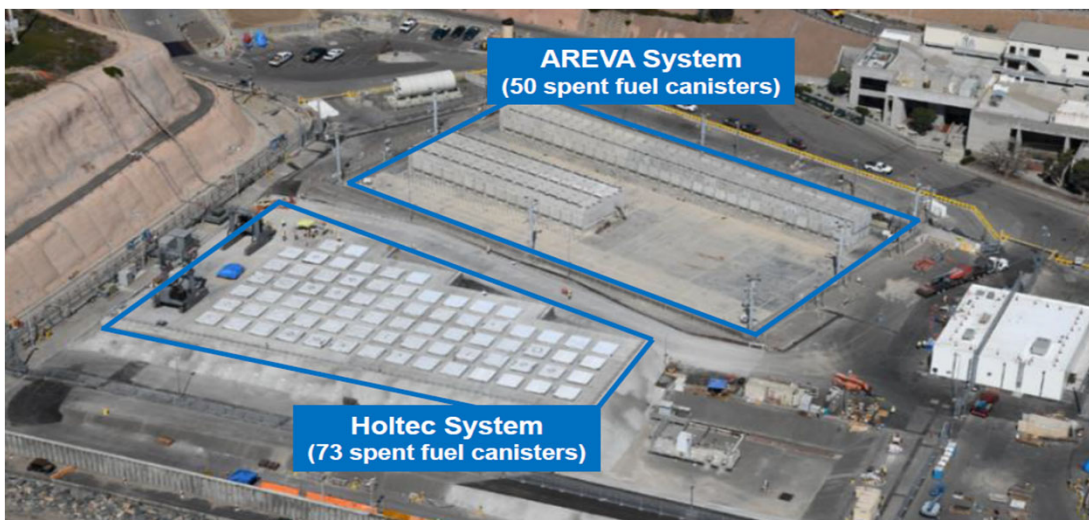


13

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13

ONSITE SPENT FUEL MANAGEMENT



14

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14

ADDRESSING THE SPENT FUEL CHALLENGE

 [HOME](#) [NEWS](#) [Fact Sheet](#)

Action for Spent Fuel Solutions Now coalition
www.spentfuelsolutionsnow.com

Take Action

Spent nuclear fuel continues to be stored near our coastline.
 Join us in encouraging the federal government to support solutions.




 15

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15

COALITION ADVOCACY

1. New Coalition Advocacy group created - "Action for Spent Fuel Solutions Now"
2. Promote legislations and appropriations for federally-funded spent nuclear fuel storage facilities
3. Coalition's mission well aligns with Riverside's interest as a Co-owner, to move spent fuel off-site ASAP in order to complete the Decommissioning Project

 16

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16

STRATEGIC PLAN ALIGNMENT

Envision Riverside 2025 Strategic Plan Priorities



#4 Environmental Stewardship



#6 Infrastructure, Mobility, and Connectivity

Cross-Cutting Threads



Community Trust



Fiscal Responsibility



Sustainability & Resiliency



Equity



Innovation



17

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17

RECOMMENDATIONS

That the City Council:

1. Receive and file this status update on SONGS Decommissioning;
2. Approve the City's participation in the Action for Spent Fuel Solutions Now coalition;
3. Authorize the Mayor, a City Councilmember, a Board of Public Utilities member or the City Manager, or his designee to represent the City of Riverside at meetings of and activities supporting the Action for Spent Fuel Solutions Now coalition; and
4. Authorize the City Manager, or his designee to execute all documents necessary to administer the participation in the Action for Spent Fuel Solutions Now coalition.



18

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18