



Decommissioning San Onofre

Nuclear Generating Station

Emergency Planning and Preparedness

July 23, 2015



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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Why is Emergency Planning Changing?

- Significantly reduced risk due to the permanent shutdown of the plant
 - No fuel in the reactors
 - Fuel has decayed greater than 3 years
 - Lower decay heat and radioactivity
 - Most potential scenarios related to an operating plant are no longer possible
 - More time to respond to and mitigate potential issues

Accident Analysis: Operating versus Decommissioned

Operating Reactor

- Potential accidents that dominate plant risk and create possibility of radiological releases are:
 - High Pressure Steam Line Breaks
 - Reactor Coolant System Line Breaks
 - Control Rod Ejection causing power excursion and loss off coolant
 - Loss of Steam Generator Feedwater, undercooling of the fuel

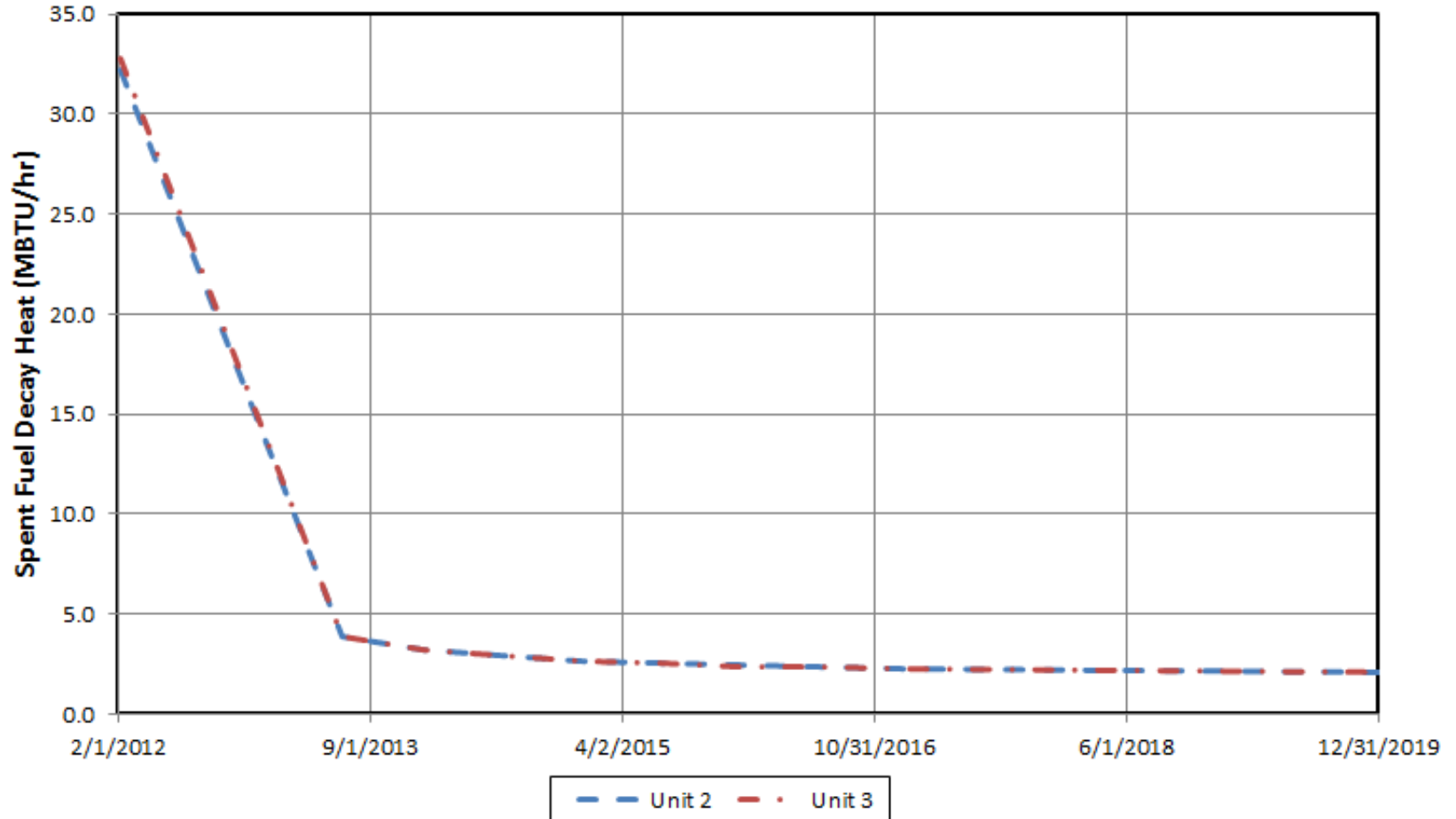
Permanently Defueled Reactor

- Hazards are greatly reduced resulting in low probability of an accident
- Primary risk is associated with used nuclear fuel stored in the Spent Fuel Pools
- Risk is reduced:
 - Spent Fuel Pool is at atmospheric pressure and low temperature
 - Heat source is low
 - Significant mitigation time



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SONGS Spent Fuel Decay Heat vs. Time





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Emergency Plan Changes

- Impacts only parts of original plan; much remains the same
- NRC spent 15 months reviewing and approving changes
- Opportunity for public comment during review and approval process



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What Remains?

- Dedicated Emergency Response Organization
- Coordination with off-site emergency responders and the Interjurisdictional Planning Committee (IPC)
- NRC oversight
- Funding for local and county agencies at current levels through 2019 (\$1.7 M annually)
- Funding for local and county agencies after 2019 commensurate with a retired nuclear plant



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Permanently Defueled Emergency Plan Implementation Timeline

Submitted EP
Exemptions and
License
Amendment
Requests
(LARs) to NRC
March 31, 2014

NRC
Commissioners
approved
SONGS EP
Exemptions
March 2, 2015

NRC issues
Safety
Evaluation
Reports (SERs)
for EP
Exemptions and
LARs
June 5, 2015

In-depth CEP
Presentation:
Emergency Planning
at SONGS
October 9, 2014;
status provided at all
CEP meetings

SONGS
Emergency
Response
Organization
(ERO) and
Offsite agencies
trained
May 22, 2015

SONGS
implements the
NRC approved
Defueled
Emergency Plan
June 8, 2015



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Maintaining Emergency Preparedness During Decommissioning

KELLI GALLION
EMERGENCY PLANNING MANAGER



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Maintaining Emergency Preparedness During Decommissioning

- Dedicated Emergency Response Organization
- Active partner with our off-site emergency partners to protect the health and safety of the public and our employees
- Committed to funding local and regional emergency response agencies



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Maintaining Emergency Preparedness During Decommissioning

EMERGENCY PLANNING CAPABILITY	OPERATING PLANT EMERGENCY PLAN	PERMANENTLY DEFUELED EMERGENCY PLAN (CURRENT)
Dose Assessment	<ul style="list-style-type: none"> Onsite and Offsite radiological monitoring required 	<ul style="list-style-type: none"> Onsite radiological monitoring required SONGS, Orange County and San Diego County continue to include offsite radiological monitoring in their Emergency Response Procedures
Emergency Notifications via 24/7 Staffed Warning Points	<ul style="list-style-type: none"> Notified within 15 minutes 	<ul style="list-style-type: none"> Notified within 15 minutes Verbal verification required within 60 minutes (OC, SD County, Cal OES, Camp Pendleton, and NRC)
Public Information	<ul style="list-style-type: none"> Joint Information Center 	<ul style="list-style-type: none"> SCE Corporate Communications Department disseminates information to the public through press releases and media conferences. 24/7 Corporate Media line available



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Maintaining Emergency Preparedness During Decommissioning

OFFSITE EMERGENCY RESPONSE CAPABILITY	OPERATING PLANT EMERGENCY PLAN	PERMANENTLY DEFUELED EMERGENCY PLAN (CURRENT)
Law Enforcement (in support of Security Related Events)	<ul style="list-style-type: none"> • California State Parks • California Highway Patrol • San Diego County Sheriff • Orange County Sheriff • Federal Bureau of Investigation (FBI) • Marine Corps Provost Marshall 	<ul style="list-style-type: none"> • California State Parks • California Highway Patrol • San Diego County Sheriff • Orange County Sheriff • Federal Bureau of Investigation (FBI) • Marine Corps Provost Marshall
Hospitals/Medical Treatment	<ul style="list-style-type: none"> • Saddleback Memorial-SC • Mission Regional • Mission-Laguna Beach • Tri-City Medical Center- Oceanside 	<ul style="list-style-type: none"> • Mission Hospital Regional • Tri-City Medical Center- Oceanside
Transportation of Injured Persons	<ul style="list-style-type: none"> • Camp Pendleton • Orange County Fire • Air Methods 	<ul style="list-style-type: none"> • Camp Pendleton • Orange County Fire • Air Methods
Fire Fighting and Rescue	<ul style="list-style-type: none"> • Camp Pendleton 	<ul style="list-style-type: none"> • Camp Pendleton



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Collaboration with the IPC and Our Community

- SCE shares a common goal of continued protection of the health and safety of our community and our workers. SONGS and the IPC will continue to meet on a regular basis
- SCE has committed to maintain the Community Alert Siren System (Sirens) for the jurisdictions within 10 miles of the plant
- SCE has committed to allowing off-site Dose Assessment Team Member(s) into the Command Center during an actual radiological event
- SCE is committed to funding through June 2019
- SCE has committed to discussing off-site funding for emergency preparedness beyond 2019