

San Onofre Decommissioning Community Engagement Panel

REGULAR MEETING

Thursday, May 28, 2020 from 5:30 – 9:30 p.m. via Skype

Meeting Minutes

1) Community Engagement Panel (CEP) Member Attendance:

- a) Present: Dr. David Victor (CEP Chairman/University of California, San Diego), Dan Stetson (CEP Vice Chairman/Trustee-Executive Director, Nicholas Endowment), Jerome “Jerry” M. Kern (CEP Secretary/Oceanside City Representative), Hon. John Taylor (San Juan Capistrano City Council), Rich Haydon (California State Parks), Martha McNicholas (Vice President, Capistrano Unified School District Board of Trustees), Marni Magda (Sierra Club), Garry Brown (Orange County Coastkeeper), Hon. Paul Wyatt (Dana Point City Council), Hon. Jim Desmond (Supervisor, San Diego County, 5th District), Captain Mel Vernon (San Luis Rey Band of Mission Indians), Jim Leach (South Orange County Economic Coalition), Donna Boston (Orange County Sheriff's Department), Ted Quinn (American Nuclear Society), Kathy Ward (San Clemente City Council), Gene James, (Alternate for Kathy Ward San Clemente City Council), James Dinwiddie (Alternate for Lisa Bartlett (Supervisor, Orange County, 5th District)
- b) Absent: Hon. Lisa Bartlett (Supervisor, Orange County, 5th District), Valentine “Val” Macedo (Laborers' International Union of North America, Local 89) and Sam Jammal (Camp Pendleton)
- c) Southern California Edison (SCE) Representatives: Doug Bauder, Chief Nuclear Officer (CNO) and Vice President (VP) of Decommissioning; Randall Granaas (SCE Nuclear Fuel / ISFSI Engineer), Ross Quam (SCE Security Manager), Kelli Gallion-Sholler (Emergency Planning and Preparedness Manager), and Manuel Camargo, Principal Manager Strategic Planning
- d) Guest Speakers: Katie Day (Surfrider Foundation), Roger Johnson (San Clemente resident), Tom Isaacs (SCE Experts Team Chairman, Independent Strategic Advisor for Nuclear Waste, Lead Advisor Blue Ribbon Commission on America's Nuclear Future), Dr. Patrick Papin (Department of Physics, Dan Diego State University), Mike Corradini (Emeritus Distinguished Professor of Nuclear Engineering, Engineering Physics Department, University of Wisconsin) , Kevin Crowley (Former Senior Board Director, Nuclear and Radiation Studies Board National Academies of Sciences, Engineering, and Medicine), Ed Lyman (Director of Nuclear Power Safety of Concerned Scientists, Washington, DC), Donna Boston (Director Orange County Sheriff's Department, Emergency Management Division Orange County Operational Area), and Stephen Rea (Assistant Director County of San Diego Office of Emergency Services)

2) Virtual meeting via Skype convened by Chairman Victor at 5:35 p.m.

NOTE: VIDEO OF THIS MEETING, SPEAKER PRESENTATIONS, AND A TRANSCRIPT ARE AVAILABLE ON [SONGScommunity.com](https://www.songscommunity.com). THIS DOCUMENT PROVIDES A SUMMARY

3) Key Updates

- The dry storage of spent nuclear fuel at SONGS is designed to maintain the safety and confinement of the fuel. When operating, there were 82 emergency action levels at SONGS. Once all the spent fuel is in dry storage, there will be 3. None involve an off-site radiological release, even as a result of outlier events such as earthquakes and aircraft impacts.
- Fuel transfer operations, moving spent nuclear fuel from wet to passive dry storage, are continuing safely at SONGS with COVID-19 controls in place. SCE is in the process of storing canister 64 of 73. The work is likely to finish mid-summer 2020.

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- The Unit 1 Reactor Pressure Vessel, a 770-ton low-level radioactive waste package, was moved off-site and is currently on its way to a disposal facility in Clive, Utah. This was one of the first major projects of the SONGS deconstruction and the work by the team to prepare and load the RPV was executed safely. Nearly all the low-level radioactive waste will follow the same pattern and be shipped to Clive.
- Deconstruction work at SONGS, ongoing since February, complies with the Governor's order and a SCE pandemic protocol. Completed work includes asbestos removal in the containment buildings and delivery of office trailers that will replace the onsite office buildings, which will be dismantled soon.

4) Five Key Takeaways

1. (David Victor) The Community Engagement Panel and SCE focused a majority of this meeting on examining so-called "outlier" events and what effects, if any, they would have on the spent nuclear fuel stored at SONGS. This meeting was undertaken in response to questions raised in a variety of ways by diverse members of the community. The meeting featured leading experts from across the country providing information on radiation, terrorist threats, postulated cracks in a spent fuel canister, and spent fuel storage security practices. Such a meeting in an unclassified, public setting and focused entirely on the risks of dry storage facilities is unprecedented in the industry.
2. (Doug Bauder) Under the design basis, there are no accident scenarios involving dry spent fuel storage that result in an offsite radiological release due to damage to a canister. (This finding is supported by the analysis performed by the Nuclear Regulatory Commission under NUREG-1140.) The local community should take comfort in that. Even so, SCE underscored the value of its strong partnerships with emergency responders in the vicinity of SONGS, including Camp Pendleton, local counties and local cities. The meeting included detailed overviews of emergency planning and responses by Orange County and San Diego County.
3. (Dr. Kevin Crowley) Formerly of the National Academies of Sciences, Engineering, and Medicine, Dr. Crowley concluded his presentation on terrorism and dry fuel storage systems with these summarized points: Robust designs of dry storage systems help protect spent fuel from terrorist attacks because of their massive physical shielding and multiple barriers to radioactive material releases. While no dry storage system provides complete protection against all attack types, "any radioactive material releases from attacks would likely be relatively small."
4. (Ross Quam) While the greatest concerns were raised around possible terrorist action, the expert panel underscored that onsite security is the essential line of defense against those threats. The SONGS onsite ISFSI-only security plan—which is part of the SONGS NRC license and enforced by the NRC—goes above and beyond the NRC requirements. It includes a number of provisions such as vehicle barriers, an integrated intrusion detection/video surveillance system and armed force capabilities that the expert panel identified as important but could not be discussed in further detail in an open setting.

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5. (Donna Boston, Stephen Rea, Kelli Gallion) Representatives from SCE onsite emergency planning, and Orange County and San Diego Counties offsite emergency planning provided details regarding local coordination efforts and emergency response plans for the ISFSI-only site condition, which include layers of local, state and federal support if ever needed. San Diego and Orange Counties along with the local jurisdictions will maintain emergency response plans specific to SONGS. The counties use multimodal public safety alert, warning and notification systems such as AlertOC and AlertSanDiego.

6. Additional information:

- Find resources from the second quarter Community Engagement Panel meeting [here](#). Those resources include an online “library” with more detailed technical information on each of 14 possible outlier events. The library will be an evergreen asset, updated with new information as it appears.
- Visit the SONGS [YouTube channel](#) to see how SCE conducted a canister repair demonstration at SONGS.

7) Chairman Victor Facilitated the Public Comment Period

- a) Public Comments were made by the following individuals:
- i) Gary Headrick: (San Clemente Green) – canister radiation
 - ii) Nina Babiarz: (Public Watchdogs) – emergency and insurance exemptions
 - iii) Charles Langley: (Public Watchdogs) – canister camera inspection videos
 - iv) Donna Gilmore: (San Onofre Safety) – zirconium hydrides and uranium
 - v) Mandy Sackett: (Surfrider Foundation) – safety recommendations
 - vi) Kalene Walker: (Local resident) – canister system vulnerabilities
 - vii) Sarah Brady: (Local resident) – Waste water releases
 - viii) Amber: (Local resident) – comment on who will be responsible during an event

8) Meeting adjourned at 9:32 p.m.