



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

March 10, 2022

LICENSEE: Southern California Edison
FACILITY: San Onofre Nuclear Generating Station, Units 1, 2, and 3
SUBJECT: SUMMARY OF FEBRUARY 2-3, 2022, ROUTINE SITE VISIT AT SAN ONOFRE NUCLEAR GENERATING STATION, UNITS 1, 2, AND 3

On February 2 and 3, 2022, U.S. Nuclear Regulatory Commission (NRC) staff from Headquarters visited the San Onofre Nuclear Generating Station (SONGS), Units 1, 2, and 3. The purpose of the site visit was for the NRC License Termination Plan (LTP) technical team to:

- 1) tour the site to get a better understanding of the site layout and the relationships between facility structures, natural and engineered land features, and the ocean
- 2) obtain an understanding of the licensee's Southern California Edison's (SCE's) status of its characterization progress and plans
- 3) inquire about the licensee's plans and potential complexities for LTP development

NRC Staff:

Amy Snyder, Senior Project Manager
Greg Chapman, Health Physicist, CHP
Randall Fedors, Senior Hydrogeologist
Cynthia Barr, Senior Performance Analyst

SCE and Contractors:

Al Bates, et al., SCE
Steven Mannon, et al., AECOM
Sarah Roberts, et al., *EnergySolutions*

Items Reviewed by NRC or discussed with SCE:

Before the site visit, the NRC technical team reviewed the docket for technical reference material for documents of interest. The NRC provide a list of items that the NRC staff would like to see or discuss during the stie visit. SCE obtained the information and had it available for the NRC staff to review.

- Historical Site Assessment (HSA) for site (if available) or 10 CFR 50.75(g) files or summary of information on spills and status of cleanup
- Location of the Intake and discharge conduits/structures and any onshore structures
- The areas planned for near-term radiological characterization survey and sampling and analysis strategy
- Any areas of significant known burials, leaks or spills (e.g., more significant releases or remedial activities reported in Agencywide Documents Access and Management System (ADAMS) Accession No. ML062280597, “Groundwater Protection – Data Collection Questionnaire”
- Site/model boundaries and air/ground water monitoring locations
- Sources and sinks (e.g., retention ponds and dewatering activities) including surface water/runoff locations during operations and expected changes over time
- Concept of site dewatering plan and timing per the Post Shutdown Decommissioning Activities Report
- Plans for leaving buried piping and embedded piping or metal penetrations in place, if available to discuss
- Schedule for LTP development, if available
- Specific locations either on maps or drawings or photos or on the site tour:
 - Well locations, including purpose (e.g., monitoring, or remediation) Groundwater levels in relation to facility structures, including annual variations, and tidal effects
 - Seawall and revetment
 - Site areas with erosional features and erosion protection structures
 - If possible, outcrops of Qomt and Tsm geologic units
- Information/references on the characterization of Unit 1 area before ISFSI expansion was built or summary of what was done to understand the radiological status of the remains of Unit 1 structures and soil to include current Unit 1 site boundaries
- Survey requirements for time differentiated surveys (surveys offset in time) due to the licensee’s potential requirement to perform additional work after initial site demolition/removal work
- Groundwater monitoring needs for US. Environmental Protection Agency/NRC Memorandum of Understanding (67 FR 65375) consideration.

The agenda for the two-day visit is provided in the attachment, along with a participants list.

On the first day, a site safety briefing, and introductions were made. SCE and its contractor, SDS, and subcontractor, *EnergySolutions*, provided an overview of the project, including Federal, State and local interests in the project; end state concept for unrestricted release, and high level conceptual early plans for the structure of LTP. After lunch on the first day, SCE provided a tour of SONGS, including walk-down of various elevation levels to provide a better understanding of the end state concept for unrestricted release, the forebay area, turbine building, well locations on the west side of the plant, and a view looking into containment from the east side of the plant.

On the second day, additional presentations, and discussions took place on groundwater monitoring, site hydrology, future dewatering activities to facilitate decommissioning activities, coastal processes impact study, intake structure characterization survey, and HSA, and site characterization activities. Action items were discussed to end the second day.

Please direct any inquiries to me at (301) 415-6822 or amy.snyder@nrc.gov.

Sincerely,

 Signed by Snyder, Amy
on 03/10/22

Amy M. Snyder, Senior Project Manager
Reactor Decommissioning Branch
Division of Decommissioning, Uranium Recovery
and Waste Programs
Office of Nuclear Material Safety
and Safeguards

Docket Nos.: 50-206, 50-361, 50-362,
72-041

Attachment: Agenda and List
of Participants

Attachment:
Agenda
and List of Participants
February 2-3, 2022 Site Visit - San Onofre Nuclear Generating Station

NRC	SCE	SDS
Amy Snyder <i>Project Manager Rx Decom. Branch</i>	Al Bates <i>Manager Regulatory Affairs</i>	Steve Mannon <i>Manager Regulatory Affairs</i>
Greg Chapman <i>CHP Rx Decom. Branch</i>	Mark Morgan <i>Sr. Nuclear Engineer Regulatory Affairs</i>	Bob Corbett <i>Manager Radiation Protection</i>
Cynthia Barr <i>Sr. Systems Performance Analyst Risk & Tech. Analysis Branch</i>	Leon Rafner <i>Nuclear Engineer Regulatory Affairs</i>	Sarah Roberts <i>Vice President Radiological Programs</i>
Randy Fedors <i>Sr. Hydrogeologist, Rx Decom. Branch</i>	Ron Pontes <i>Manager Environmental, RP & Waste</i>	Robert Yetter II <i>Director Radiological Site Closure</i>
	Sandy Sewell <i>Manager RP & Waste</i>	Robert Yetter III <i>LT/FSS QA/Documentation Specialist</i>
	Eric Goldin <i>LTP Project Manager RP & Waste</i>	Dave Fauver <i>CHP Sr. License Termination Consultant</i>
	Gordon Madison <i>FSS Oversight Specialist RP & Waste</i>	Dale Randall <i>Technical Manager FSS/LT</i>
	Chris Ahola <i>RP Oversight Specialist RP & Waste</i>	

Day 1: February 2, 2022 – SCE Office Complex in Parking Lot 4

- 0800 – NRC team site arrival
- 0800 – 0830: Site safety briefing and introductions
- 0800 – 1130: Initial discussions & presentations (topical agenda to be provided later)
- 1130 – 1230: Lunch
- 1230 – 1630: Site Tour
- 1630 – 1730: Actions review and day 1 wrap-up

Day 2: February 3, 2022 – SCE Office Complex in Parking Lot 4

- 0800 – NRC team site arrival
- 0800 – 1130: Continue discussions & presentations (topical agenda to be provided later)
- 1130 – 1230: Lunch
- 1230 – 1430: Continue technical discussions & presentations
- 1430 – 1530: Actions review and day 2 wrap-up
- 1530 – End of meetings

SAN ONOFRE NUCLEAR GENERATING STATION, SUMMARY OF FEBRUARY 2-3, 2022, ROUTINE SITE VISIT AT SAN ONOFRE NUCLEAR GENERATING STATION, UNITS 1, 2, AND 3 DATE March 10, 2022

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OFFICE	NMSS/DUWP/RDB	NMSS/DUWP/RDB	NMSS/DUWP/RDB	
NAME	ASnyder AS	BWatson BW	ASnyder AS	
DATE	Mar 3, 2022	Mar 4, 2022	Mar 10, 2022	

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