

June 3, 2003

MEMORANDUM TO: Dan Gillen, Chief
Decommissioning Branch
Division of Waste Management, NMSS

FROM: William C. Huffman, Project Manager */RA/*
Section A
Decommissioning Branch
Division of Waste Management, NMSS

SUBJECT: SUMMARY OF THE MAY 22, 2003, MEETING WITH SOUTHERN CALIFORNIA EDISON COMPANY REGARDING UPGRADES TO THE SAN ONOFRE NUCLEAR GENERATING STATION UNIT 1 TURBINE GANTRY CRANE

On May 22, 2003, a public meeting was held at the Nuclear Regulatory Commission (NRC) offices in Rockville, Maryland, with representatives of the Southern California Edison Company to discuss a planned upgrade to the San Onofre Nuclear Generating Station Unit 1 (SONGS-1) turbine gantry crane.

The upgrade is needed to support lifting and movement of a fully loaded transfer cask containing spent fuel from the SONGS-1 spent fuel pool into dry cask storage at the SONGS independent spent fuel storage installation (ISFSI). The licensee refers to the upgrade of the turbine gantry crane, together with associated structures and systems, as the "SONGS-1 Cask Handling System Upgrade."

The scope of the upgrade involves increasing the load rating on the crane from 100 tons to 105 tons; replacing the existing crane trolley with a qualified single failure proof trolley; and upgrading the building structure supporting the crane. The seismic classification of the crane, building support structure, and trolley will all be upgraded to seismic category "A."

The upgrade will conform with the guidance in NUREG-0612, Control of Heavy Loads at Nuclear Power Plants, and NUREG-0554, Single Failure Proof Cranes. The licensee provided a qualitative assessment of the upgrade against guidelines in these NUREGs during the meeting. In addition, the licensee discussed the details of the structural and seismic modifications needed for both the crane and building. The licensee also addressed the computer programs and assumptions used to perform various mechanical, structural, and seismic analyses. The NRC staff has previously approved the mechanical, structural, and seismic analysis of the crane trolley via a licensing topical report. The trolley is being procured from the vendor Ederer.

The licensee provided consequence analysis results from a transfer cask drop (although it is not necessary to postulate a cask drop for a single failure proof crane). The hypothetical dose consequences are limited to damage to the fuel assemblies in the transfer cask. This is because the transfer cask is not moved over the spent fuel pool and a transfer cask drop cannot drain the spent fuel pool (due to a separation of the cask loading area from the spent

fuel pool by a weir wall). Furthermore, since the SONGS-1 site is decommissioning, there are no other structures, systems, and components of concern within the load path of the crane and transfer cask operations. The consequences of a transfer cask drop loaded with Unit 1 spent fuel is a very small fraction of the plant design basis limits.

The licensee plans to submit (for NRC approval) an amendment to the SONGS-1 Defueled Safety Analysis Report that documents the modifications of the crane against the NRC issued guidance in NUREG-0612 and NUREG-0554. The licensee expects to submit the amendment by August 15, 2003, and will be requesting a three-month NRC review. The licensee notes that a delay in the review has the potential to impact the operating plants (Units 2 and 3). Specifically, the Unit 1 spent fuel pool must be offloaded to support expansion of the site ISFSI and subsequent offloading of fuel from Units 2 and 3 spent fuel pools.

Staff questions during the meeting focused on details related to the seismic analyses, quality assurance, and nondestructive examination of the existing crane structure and welds.

The meeting attendance list and a copy of the slides used by the licensee for their presentation is attached. This meeting was noticed on May 5, 2003. No proprietary information was disseminated or presented at this meeting. No regulatory decisions were requested or made.

Docket No. 50-206

Attachments: Attendance List
Presentation Slides (ADAMS Accession No. ML031480478)

cc: Service List

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MEETING SUMMARY PACKAGE ADAMS ACCESSION NUMBER:

OFFICE	DCB/PM	DCB/LA	DCB/SC
NAME	WHuffman	CBurkhalter	MThaggard
DATE	6/3/03	6/3/03	6/3/03

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Attendance List For
Meeting with Southern California Edison Company
Regarding Upgrade of the Turbine Gantry Crane
at SONGS-1

May 22, 2003

<u>Name</u>	<u>Organization</u>
James Reilly	Southern California Edison Company
Dave Pilmer	Southern California Edison Company
Torrey Yee	Southern California Edison Company
Paul Gyswyt	Southern California Edison Company
Riyad Qashu	Southern California Edison Company
Mark Thaggard	Decommissioning Branch, NMSS, NRC
Bill Huffman	Decommissioning Branch, NMSS, NRC
Cornelia Burkhalter	Decommissioning Branch, NMSS, NRC
Steve Jones	Plant Systems Branch, NRR, NRC
Henry Wagage	Plant Systems Branch, NRR, NRC
Jai Rajan	Mechanical and Civil Engineering Branch, NRR, NRC
Steve O'Connor	Licensing Section, Spent Fuel Project Office, NMSS, NRC