PRM-72-8 83 FR 12504

From:	Ken Berg
To:	RulemakingComments Resource
Cc:	"Ray Lutz"
Subject:	[External_Sender] FW: [ShutSanOnofre] Comment period is now open on our NRC "HELMS" petition. Please comment!
Date:	Tuesday, April 03, 2018 1:37:15 PM
Attachments:	180403holtec.pdf

Dear NRC:

The SONGS fiasco is virtually out of control. The petition seeks to correct an important issue for long-term surface storage and I agree with it.

Ken Berg 22701 Lajares Mission Viejo, CA (949) 830 6888

III. The Petition

The petitioners are requesting that the NRC revise part 72 of title 10 of the Code of Federal Regulations (10 CFR) regarding spent nuclear fuel (SNF) stored in independent spent fuel storage installations (ISFSIs) at nuclear power stations. The petitioners are concerned that there is a mismatch between the NRC's 10 CFR part 72 regulations that define requirements for ISFSIs and the current situation, which the petitioners assert is that surface storage of spent nuclear fuel will continue indefinitely. The petitioners observe that 10 CFR part 72 was initially developed at a time when a repository was anticipated to be available in 1998 and, therefore, this PRM would address concerns with a much longer time frame for surface storage. The petitioners make 14 contentions that propose specific revisions to 10 CFR part 72 that would address issues concerning the indefinite surface storage of spent nuclear fuel in dry cask storage systems. In particular, the petitioners request that 10 CFR part 72 be revised to require: a 1,000 year design life goal for spent nuclear storage systems; estimates for the operating costs over the design life; determination of the safety margins over the design life; and time limited aging analyses demonstrating that structures, systems, and components important to safety will continue to perform for the design life. The petition may be found in ADAMS at Accession No. ML18022B207.

Background ...

-----Original Message-----From: Ken Berg [<u>mailto:bergk@cox.net</u>] Sent: Monday, April 2, 2018 12:09 PM To: Ken Berg Subject: FW: [ShutSanOnofre] Comment period is now open on our NRC "HELMS" petition. Please comment!

Ray:

I have no objection to the petition but am concerned that there are other issues to be considered, and that the CPUC Investigation of the SONGS proceedings on May 2 should lead to a rejection of all proposed settlements, allowing time for sober reflection on all of the minutiae of all of the issues by a panel of citizens and authorities having jurisdiction over the SONGS fiasco.

Because:

SCE rates (more than .20 per kwh) are double what I pay in Arizona (less than .10 per kwh).

I want to reduce the rates and protect them from further increase.

SCE, CPUC et al are using ratepayers as a cash-cow to be milked to suit the whims of the authorities.

We should not accept the 2B+ price for MHI and SCE failures.

CEP, ORA and similar ratepayer advocates are not protecting us.

DoE has created a danger by failing their mandate for nuclear wastes affecting residents and should pay all the costs for handling, storage and disposal for SONGS. It's their responsibility.

SCE rights to on site storage are compromised by Navy title to property.

DoE should pay Navy a million dollars a month to encourage DoE to deal with active nuclear materials and apparatus, while securing disposal sites.

Quickly!

To remove dangers to and fears of residents. The lies, cheating, incompetence etc. demonstrated has demolished the credibility of any of the authorities dealing with SONGS. This has become a public issue risking safety, health, security and costs by a bloated and uncaring bureaucracy.

The public has no way to assess the risk, nor the means for eliminating the risk!!!

NRC has said they not concerned with our costs, only safety technology. I claimed that costs and safety are intimately interrelated.

NRC should be pro-active in safety that brings no costs to ratepayers!

Welded pipe cannot provide a safe repository for nuclear wastes.

Many only know of 'spent' fuel ... which is really hot fuel bundles removed from reactors.

One wonders what happens to the rest of the plant. There's a contractor at work at the plant. One wonders what his contract calls for. Does SCE think they can foist off extra risk and cost onto us ratepayers? It appears that they think so little of us, that they can do what they want and that we will accept risks and costs. We need a chance to get their attention. Rejecting the proposed settlements will be a start.

-----Original Message-----

From: Shutsanonofre [mailto:shutsanonofre-bounces@citizensoversight.org] On Behalf Of Ray Lutz

Sent: Sunday, April 1, 2018 10:34 PM

To: shutsanonofre@citizensoversight.org

Subject: [ShutSanOnofre] Comment period is now open on our NRC "HELMS" petition. Please comment!

Comment period is now open on our NRC "HELMS" petition. Please comment!

The following link should be clickable. Otherwise, copy and paste into a browser "Location" field. https://www.regulations.gov/document?D=NRC-2018-0017-0003

If you believe the current canisters (with design life of 40-years) are too thin and temporary for long-term use ("indefinite" is the term used by the NRC) then this is the opportunity to promote any alternative you feel is appropriate, even if it is not the two-layer design suggested in the HELMS document. This is a great opportunity to go on the official record. Don't let history pass you by!

--Ray Lutz

Shutsanonofre mailing list Shutsanonofre@citizensoversight.org http://lists.citizensoversight.org/mailman/listinfo/shutsanonofre



AND PRESENT

eir history and celebrate the season ahead at home opener





Above: An Air Force C-17 flies over as a U.S. flag is unfurled for the national anthem before the Angels' opening

Canisters may be case of history repeating

Like steam generators in 2010, the redesigned nuclear waste containers weren't approved by regulators

By Teri Sforza tsforza@scng.com @terisforza on Twitter

SAN ONOFRE

The brand-new steam generators were supposed to give San Onofre Nuclear Generating Station another 20 years of life.

Instead, they sealed its death.

Those \$671 million generators, installed to replace the old ones in 2010, didn't require Nuclear Regulatory Commission scrutiny or approval because they were supposedly the same as the originals. And now a version of the NRC's "like for like" replacement rules has come into play at San Onofre again, this time allowing four nuclear waste canisters with a potentially defective design to be loaded with spent fuel and buried yards from the beach.

Southern California Edison, San Onofre's majority owner, was preparing to load a canister with spent fuel in February when it discovered a loose bolt inside, according to Edison. An investigation revealed a potential flaw in the new design of the canisters, which the manufacturer believed was minor enough to not require NRC scrutiny.

CANISTERS » PAGE 6

A THE ORANGE COUNTY REGISTER » OCREGISTER.COM

anisters

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WHAT IS THE "LIKE FOR LIKE" REPLACEMENT RULE? » The NRC's 72.48 provision allows licensees or certificate holders to make minor changes to design without prior NRC inspection - as long as they say the change does not significantly impact safety, NRC spokesman David McIntyre said.

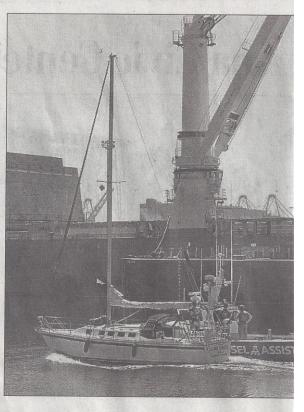
WHAT HAPPENED WITH THE STEAMGENERATORSIN2010? » The replacement generators were essentially identical to their original counterparts, according to their manufacturer and Edison. But that wasn't actually the case.

"On the outside, they may look identical, but on the inside, they're dramatically different," said Arnie Gundersen of Fairewind Associates, shortly after San Onofre's reactors powered down for the final time in 2012. "It's like taking a Model T and slapping a V-8 engine in it.

'Southern California Edison didn't want to admit they were dramatically different, because that would open up a license amendment, and the public would get involved."

The new steam generators shook and vibrated vamped the shim design. so much that the tubes inside them started breaking. That led to the release of a small amount of radioactive gas, which led to the power-down of both reactors, which led to San Onofre's premature shutdown, which cost \$4.3 billion. Parties are still squabbling over who should bear the brunt fold: to allow a path for the of that cost.

THE NUCLEAR WASTE CAN-ISTERS? » Edison is moving tons of waste from the re-UMAX dry storage system. Experts say dry storage is far safer than wet storage, and Edison aims to transfer it all to the Holtec system by mid-2019.



Boaters watch as one of two ill-fated steam generators is un Los Angeles in 2010, destined for San Onofre Nuclear Genera

Holtec's original canister design was approved by the NRC. The small alteration it made was not.

Edison was not informed of the redesign of the waste canisters, Edison officials said.

WHAT WAS THE SMALL AL-TERATION? » Holtec re-"Shims," as the Surfrider Foundation explains, "are hollow spacer devices made from aluminum, which are placed inside the spent fuel canister, between the basket (which holds the spent fuel assemblies) and the inner canister wall.

"Their purpose is twoflow of helium throughout IF EDISON WASN'T TOLD OF the canister to facilitate SO WHAT HAPPENED WITH cooling, and to act as a support structure, securing the basket.'

At the bottom of the actors' two spent fuel pools new shims are four bolts, covered the loose bolt ininto a Holtec HI-STORM or pins, which elevate the side, about 4 inches long by shim off the bottom of the a half-inch thick. canister to ensure that helium can flow more evenly.



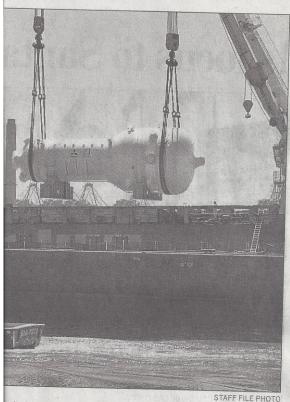
Southern California Edison is t **Onofre Nuclear Generating Sta**

bottoms to facilitate helium flow.

THE CHANGE BY HOLTEC, HOW DID IT COME TO LIGHT? » In February, as Edison was preparing to load a canister with spent fuel, it dis-

At first, workers thought an extra part was inadver-The original shims had tently placed or left inside no pins. They were solid the canister. The piece was metal, with cut-outs at the returned to Holtec, which

TUESDAY, APRIL 3, 2018



aded from a ship to be placed on a barge at the Port of ng Station.



OF SOUTHERN CALIFORNIA EDISON majority owner of San

en determined that it was piece of a stainless steel h threaded into the botm end of an aluminum im within the canister. ltec inspected and found other bolt inside another nister

AT CAUSED THE BOLTS BREAK LOOSE? » One of current theories is that "laser peening" process nbarded with high-endurability of the metal may be the cause of the wayward bolts.

Think of how a paper clip, if you bend it back and forth often enough, will break," said Dave Lochbaum, director of the Nuclear Safety Project for the nonprofit watchdog Union of Concerned Scientists. "As the canister turned so many times, that may have mately broke the pin."

WHY DID HOLTEC REDESIGN THE SHIMS IN THE FIRST PLACE? » The company did not respond to repeated requests for comment, but NRC spokesman Scott Burnell said "the vendor has indicated it made the change to improve the ability to fabricate the design."

Donna Gilmore, a critic of Edison and activist at SanOnofreSafety.org, suspects that the redesign has to do with the canister's heat rating.

"It's clear from the photo where the canisters are that the new design allows y lasers as they spin, to is part of the cooling sysprove the strength and tem," Gilmore said. "If I

am right, it brings into question whether the cooling system of the older shim design provides sufficient cooling. ... Holtec's pattern is to push the safety limits."

HAS HOLTEC HAD ANY TROU-BLE WITH REGULATORS? » Holtec has had its critics.

More than a decade ago. the company was working on storage casks for the giant Tennessee Valley Authority, America's largest public power provider. A probe by the U.S. Attorney's Office asserted that a subcontractor manufacturing Holtec's casks - U.S. Tool & Die - wrote checks totaling \$54,212 to the account of a TVA manager. That money, the U.S. Attorney's Office said, originated with Holtec.

TVA manager The pleaded guilty to falsifying financial statements by not disclosing those payments. Holtec said it wasn't privy to any of this, and was not charged.

Nonetheless, in 2010, Holtec paid a \$2 million "administrative fee" to the TVA and became the first contractor in TVA history to be debarred. Its contract was suspended for 60 days, and it submitted to a yearlong monitoring program, according to the TVA's inspector general.

IS THIS, IN THE END. THE NRC'S RESPONSIBILITY? » "The NRC needs to look at applied the load that ulti- how that change was justified by Holtec as something it could do on its own," said Lochbaum of the Union of Concerned Scientists. "It doesn't mean Holtec has to be right, but the decision needs to have been made on reasonable grounds. If it was a change that should have required NRC approval, the NRC will take action."

WHAT'S NEXT? » Investigations are ongoing. The NRC's Burnell and Mc-Intyre said the agency will be inspecting Holtec in May "and will be examining this change at that time more helium flow, which to determine whether it was properly implemented under the regulation.'