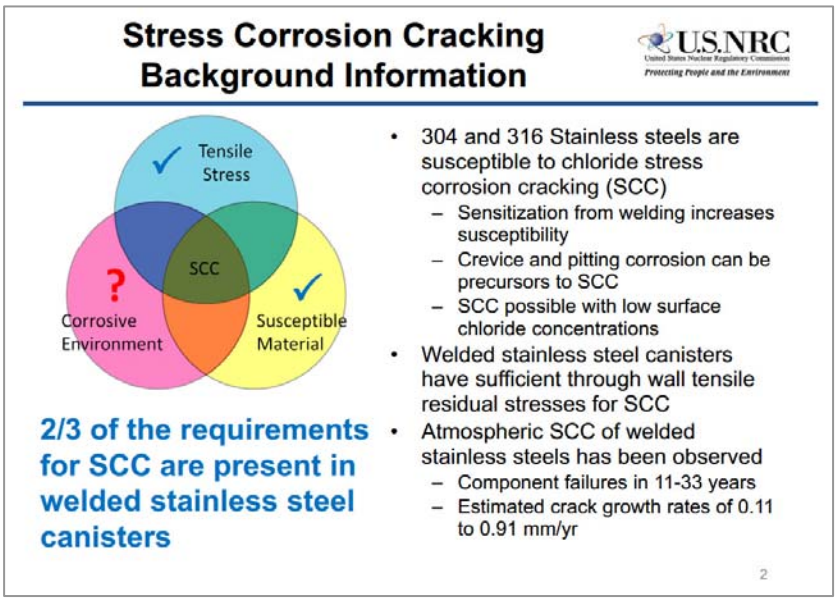
Sign online petition at SanOnofreSafety.org

STOP California from wasting $400 million on inferior nuclear waste storage canisters that may leak within 30 years and have no method for repair or replacement.

In September, Southern California Edison plans to select inferior storage canisters for tons of San Onofre nuclear waste **– to be stored on California's coastline for up to 300+ years**.



Please urge the California Public Utilities Commission (CPUC) to delay funding a storage system until Edison can provide a plan to resolve the following issues. "*We should not have to buy these canisters more than once*," said CPUC Commissioner Michel Florio.

Nuclear Regulatory Commission staff recently reported dry storage aging problems:

- **Thin stainless steel dry storage canisters may fail within 30 years.**
- **No current method to mitigate (repair or replace) defective canisters.**
- **No technology to inspect or monitor these welded canisters before they leak.**
- **Concrete overpacks/casks may crack.**

Edison should allow bidding from vendors that do not have these problems.

- **The inferior welded canisters are only 1/2 to 5/8 of an inch thick,** subject **to stress corrosion cracking** (SCC) from our coastal environment, and are **not inspected inside or out**. The **concrete overpack/cask** used with each canister is **unsealed**, and provides only gamma and neutron protection. They also may crack. Similar concrete/steel storage systems are used in most of the U.S. In California, they are used at Diablo Canyon (San Luis Obispo), Rancho Seco (Sacramento), Humboldt Bay (Humboldt), and San Onofre (Southern California).
- **Thicker casks, used internationally for storage and transport**, such as the German bolted ductile cast iron CASTOR V/19 (**almost 20 inches thick**), do not need concrete overpacks, do not have the stainless steel problems, and can be monitored and inspected. No storage system is perfect, but we can do better than the concrete/steel.

Please sign the online CREDO petition and encourage others to sign. Anyone can sign this petition. If we have enough signatures, CREDO may send the petition to their larger list.
Petition at SanOnofreSafety.org or **https://www.credomobilize.com/p/nuclearwaste**

Donna Gilmore, **SanOnofreSafety.org**
dgilmore@cox.net 949-204-7794

References

Premature failure of U.S. spent nuclear fuel storage canisters, August 2014
http://sanonofresafety.org/2014/08/21/premature-failure-of-u-s-spent-nuclear-fuel-storage-canisters/

High Burnup Fuel and Dry Cask Storage Issues, July 17, 2014 letter to CEP Chairman David Victor from Donna Gilmore, San Onofre Safety
https://sanonofresafety.files.wordpress.com/2011/11/lettertodavidvictor2014-07-17dg.pdf

NRC Meeting to Obtain Stakeholder Input on Potential Changes to Guidance for Renewal of Spent Fuel Dry Cask Storage System Licenses and Certificates of Compliance, July 14th/15th, 2014 (includes slide presentations)
http://www.nrc.gov/waste/spent-fuel-storage/public-involvement.html

Chloride-Induced Stress Corrosion Cracking Tests and Example Aging Management Program, Darrell S. Dunn, NRC/NMSS/SFST, Public Meeting with NEI on Chloride Induced Stress Corrosion Cracking Regulatory Issue Resolution Protocol, August 5, 2014
https://sanonofresafety.files.wordpress.com/2013/06/8-5-14-scc-rirp-nrc-presentation.pdf

CASTOR V/21 NRC Certificate of Compliance and Safety Analysis Report, August 17, 1990
http://pbadupws.nrc.gov/docs/ML0330/ML033020117.pdf

CASTOR brochure (includes the CASTOR V/19 and other ductile cast iron casks).
http://www.siempelkamp.com/fileadmin/media/Englisch/Nukleartechnik/produkte/CASTOR_A_high_tech_Product_made_of_ductile_Cast_Iron.pdf

GNS' [CASTOR] experience in the long-term storage at dry interim storage facilities in Ahaus and Gorleben, IAEA Vienna, May 20, 2014 http://bit.ly/1jUSNOZ

Spent Fuel Storage and Transportation Experience, Idaho National Engineering Laboratory (GNS Castor V/21, Transnuclear TN-24P, Westinghouse MC-10, NAC S-100-C), 1987
https://canteach.candu.org/Content%20Library/NJC-1-2-11.pdf

BAM test results for CASTOR transport containers
http://www.tes.bam.de/en/umschliessungen/behaelter_radioaktive_stoffe/behaelterpruefungen/index.htm#castor

Fracture Mechanics Based Design for Radioactive Material Transport Packagings, Historical Review, Sandia SAND98-0764 UC-804, April 1998 http://www.osti.gov/scitech/servlets/purl/654001

GNS CASTOR Presentation, June 09-11, 2010, Varna, Bulgaria (slide 18: CASTOR V/19, V52)
http://www.bulatom-bg.org/files/conferences/dokladi2010/Section%203/Report_Thomas.pdf

NRC Certificate of Compliance for Spent Fuel Storage Casks, COC 1029, Docket 72-1029, Amendment 3, Model No. Standardized Advanced NUHOMS®-24PT1, 24PT4, and 32PTH2, expires 02/05/2023 (pending NRC approval as of 8/20/2014)
http://pbadupws.nrc.gov/docs/ML1329/ML13290A176.pdf

Comments on Direct Rule re List of Approved Storage Casks, 79 Fed. Reg. 21,121, 4/15/2014, Request for Rescission of the Direct Rule, & Request for Publication of a New & Revised Notice of Proposed Rulemaking, Docket No. 13-0271, Diane Curran, for 20 environmental organizations and individuals.
https://sanonofresafety.files.wordpress.com/2013/06/2014-05-15-comment-letter-to-nrc-re-nuhoms-cask-approval-corrected-2014-05-27.pdf

February 10, 2012 letter from Edison to NRC: Support for NRC Review of Transnuclear Inc. Application for Amendment 3 to the Standardized Advanced NUHOMS® Certificate of Compliance No. 1029, San Onofre Nuclear Generating Station, Units 2 and 3 and Independent Spent Fuel Storage Installation Docket Nos. 50-36, 50-362 & 72041 http://pbadupws.nrc.gov/docs/ML1204/ML12046A013.pdf

Update on Decommissioning Plans, Tom Palmisano, Vice President & Chief Nuclear Officer, 8/12/2014 presentation to CA Senate Energy, Utilities and Communications Committee, Chairman Alex Padilla
http://seuc.senate.ca.gov/sites/seuc.senate.ca.gov/files/08-12-14%20Edison%20presentation.pdf