

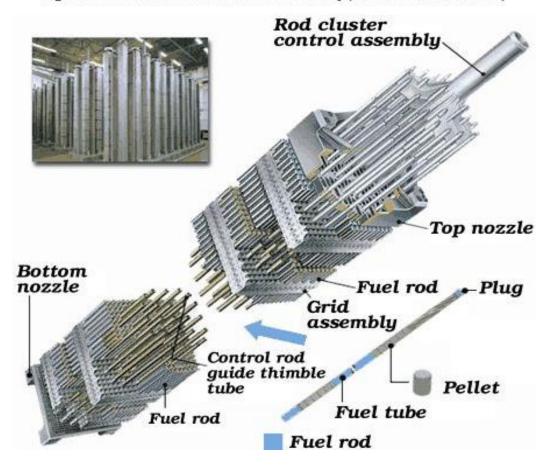
1 Michael J. Aguirre, Esq., SBN 060402 CIVIL BUSINESS OFFICE CENTRAL DIVISION Maria C. Severson, Esq., SBN 173967 AGUIRRE & SEVERSON, LLP 2 501 West Broadway, Suite 1050 15 NOV -3 PM 1: 41 San Diego, CA 92101 3 Telephone: (619) 876-5364 Facsimile: (619) 876-5368 CLERK-SUPERIOR COURT 4 SAN DIEGO COUNTY, CA 5 Attorneys for Petitioners and Plaintiffs 6 7 8 SUPERIOR COURT OF THE STATE OF CALIFORNIA 9 COUNTY OF SAN DIEGO 10 11 CITIZENS OVERSIGHT, INC., a Case No. 37-2015-00037137-CU-WM-CTL California non-profit corporation; 12 PATRICIA BORCHMANN, an individual, VERIFIED PETITION FOR WRIT OF ADMINISTRATIVE MANDATE 13 (C.C.P. § 1094.5) AND COMPLAINT Petitioners and Plaintiffs, FOR DECLARATORY RELIEF 14 v. 15 CALIFORNIA COASTAL COMMISSION; SOUTHERN CALIFORNIA EDISON COMPANY, Real Party in Interest; and 16 DOES 1 to 100. 17 Respondents and Defendants. 18 19 Citizens Oversight, Inc. and Patricia Borchmann, Petitioners, hereby petition this Court 20 for a writ of administrative mandamus under California Code of Civil Procedure § 1094.5 21 22 directed to the California Coastal Commission as follows: 111 23 24 111 25 111 111 26 111 27 111 28 1 PETITION TO SET ASIDE CALIFORNIA COASTAL COMMISSION SAN ONOFRE WASTE PERMIT

1 INTRODUCTION 2 By this verified petition and complaint, Petitioners and Plaintiffs allege: 3 1. From 1968 to 31 January 2012, Southern California Edison (Edison) was in the 4 business of generating and selling electricity from its San Onofre nuclear power plant (plant) in 5 San Diego County, California. The plant was designed with three units: Unit 1 operated from 6 1968 to 1992; Unit 2 from 1983-2012; and Unit 3 from 1984-2012. Unit 1 was decommissioned 7 in 1992. 2. 8 Since 1984, the plant generated an average of 16 million megawatt hours of 9 electricity annually, making it the second largest electric generating facility in California. The 10 plant generated enough electricity to meet the needs of 2.3 million California households -- about 11 8 percent (8%) of all electricity generated in the State. 12 3. Since 1992, the plant operated two Units consisting of nuclear Pressurized Water 13 Reactors (PWRs), each rated at 3358 MWt (1180 MWe). Units 2 and 3 were originally equipped 14 with two CE Model 3340 recirculating steam generators. These original steam generators (OSGs) 15 were designed for a 40-year service life. 16 4. To generate electricity, Edison used uranium oxide fuel in the form of small 17 ceramic pellets that were placed inside metal fuel rods. These rods were grouped into bundles 18 called assemblies. Assemblies at San Onofre were a structured group of fuel rods (long, slender, 19 metal tubes containing pellets of fissionable material which provide fuel for nuclear reactors: 20 /// 21 /// 22 /// 23 /// 24 /// 25 /// 26 /// 27 ///

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Figure 3: Schematic view of PWR fuel assembly (Mitsubishi Nuclear Fuel)



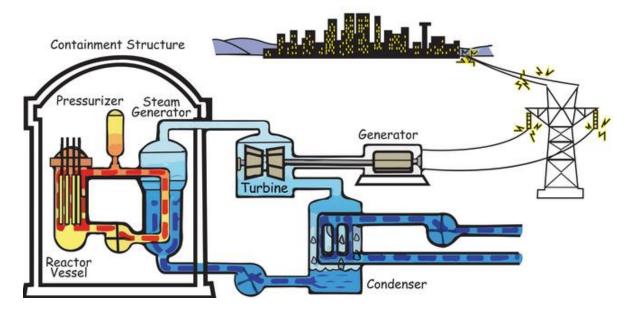
- 5. PWR fuel assemblies like those at San Onofre are comprised of a bottom nozzle into which rods are fixed through the lattice; to finish the whole assembly, it is crowned by a top nozzle. The bottom and top nozzles are heavily constructed as they provide much of the mechanical support for the fuel assembly structure. In the finished assembly, most rod components are fuel rods, but some are guide thimbles, with one or more are likely to be dedicated to instrumentation.
- 6. An 1100 MWe PWR core may contain 193 fuel assemblies composed of over 50,000 fuel rods and some 18 million fuel pellets. Once loaded, fuel stays in the core for several years depending on the design of the operating cycle:

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The Pressurized-Water Reactor (PWR)



- 9. During refueling, every 12 to 18 months, some of the fuel usually one third or one quarter of the core was removed to storage, while the remainder was rearranged to a location in the core better suited to its remaining level of enrichment.
- 10. Over time, the nuclear fuel at the plant lost efficiency. Every 18-24 months, Edison shut down the plant to remove and replace about one-third of the fuel, consisting of the oldest assemblies. While the plant was generating electricity, its three (then two) reactors were also producing nuclear spent-fuel waste. The nuclear waste produced at San Onofre looked exactly like the fuel that was loaded into the three reactors the assemblies of metal rods enclosing stacked-up ceramic pellets. Nuclear fuel spent about three years in the San Onofre reactors to generate heat for electricity.
- 11. As of October 2014 Edison admitted there were 2,668 in the water pool at San Onofre (approximately 1,100 of them are High Burn -up Fuel). The longer the nuclear fuel remains in the reactor, the higher the burnup. Burnup is a way to measure how much uranium is burned in the reactor. It is the amount of energy produced by the uranium.
- 12. Following the 18-24 month cycle, Edison installed the newer assemblies and removed some of the spent ones to underwater storage pools:



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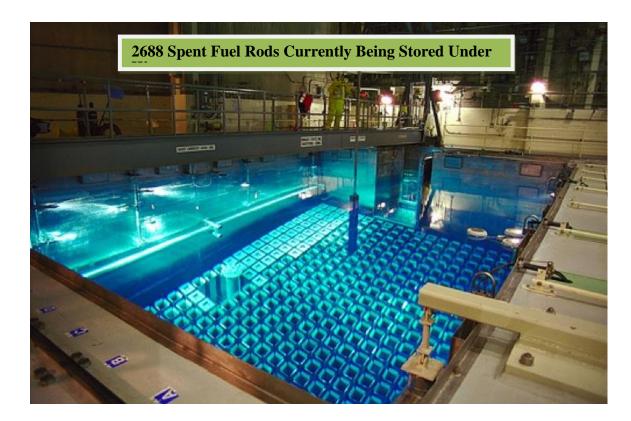
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13. San Onofre was in the midst of its sixteenth refueling cycle when on 31 January 2012, it experienced an event as follows:

"At 1505 PST¹, Unit 3 entered Abnormal Operation Instruction S023-13-14 'Reactor Coolant Leak' for a steam generator leak exceeding 5 gallons per day.

"At 1549 PST, the leak rate was determined to be 82 gallons per day. At 1610 PST, a leak rate greater than 75 gallons per day with an increasing rate of leakage exceeding 30 gallons per hour was established and entry into S023-13-28 'Rapid Power Reduction' was performed.

"At 1630 PST, commenced rapid power reduction per S023-13-28 'Rapid Power Reduction'. At 1731 PST, with reactor power at 35% the Unit was manually tripped. At 1738 PST, Unit 3 entered Emergency Operation Instruction S023-12-4 'Steam Generator Tube Rupture'.

"At 1800 PST the affected steam generator was isolated."

All control rods fully inserted on the trip. Decay heat is being removed thru the main steam bypass valves into the main condenser. Main feedwater is maintaining steam generator level. No relief valves lifted during the manual trip. The plant is in normal shutdown electrical lineup.

Unit 2 is presently in a refueling outage and was not affected by this event.

¹ PST, Pacific Standard Time.

The licensee has notified the NRC Resident Inspector. The licensee has issued a press release.

- 14. As a result of the failure of its steam generators after only 11 months of joint operation, the plant was closed permanently on 31 January 2012. When the plant closed, Edison had over 2,668 fuel assemblies in the spent fuel pools for Units 2 and 3. These assemblies must be cooled in the spent fuel pools for five to seven years or more. Edison has removed some of the assemblies from the pools and stored them in dry cask storage. About 800 Unit 2 and 3 fuel assemblies are stored in above-ground dry cask storage at the plant. In addition, there are about 400 Unit 1 used nuclear fuel assemblies in dry cask storage on site.
- 15. During decommissioning of Unit 1, the nuclear spent fuel was originally spread between all three units' spent fuel pools. All Unit 1 fuel has now been transferred to dry cask storage (five casks from the Unit 3 pool were loaded between October and December 2003; nine casks from the Unit 1 pool were loaded in May 2004; and three casks from the Unit 2 pool were loaded in June 2005). Transfer of Unit 2 & Unit 3 fuel to dry cask storage began in 2006.

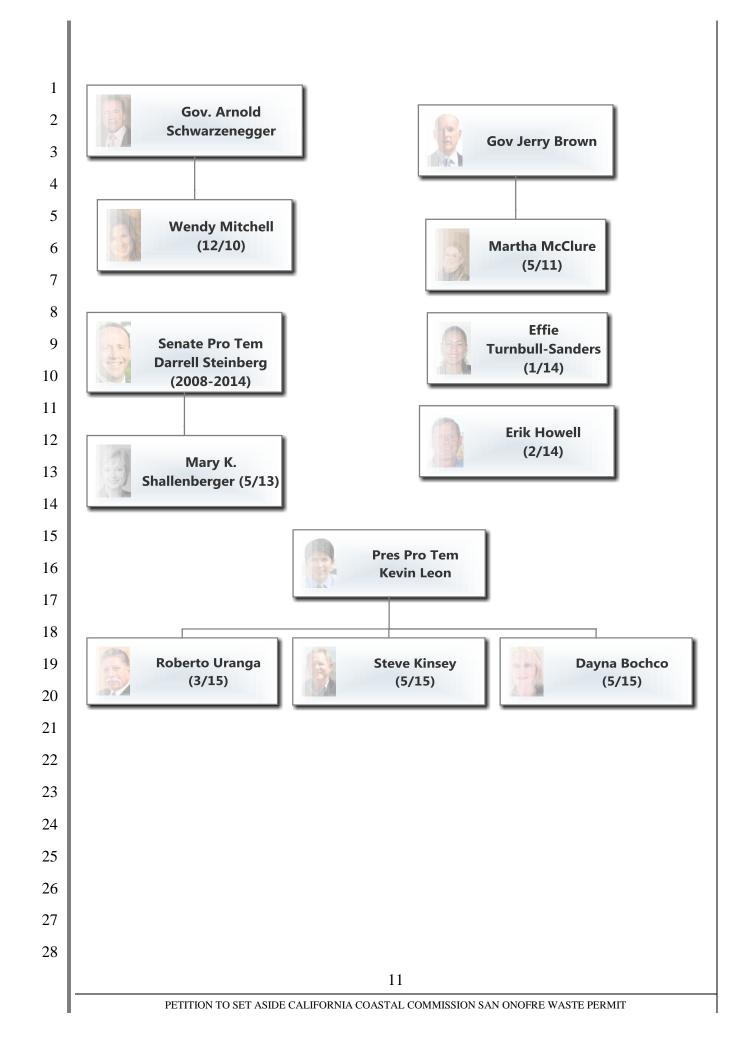
THE PERMIT AND THIS CHALLENGE THERETO

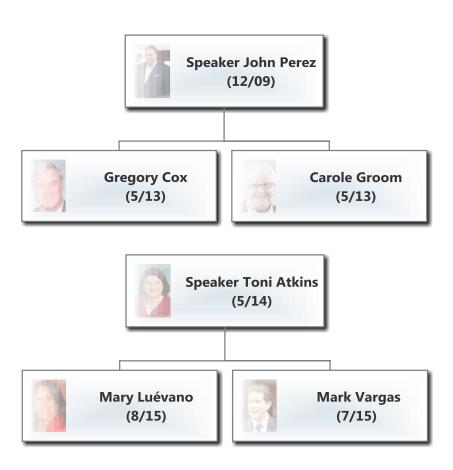
- 16. Edison applied to the Coastal Commission for a permit to bury close to 3,600,000 lbs. of nuclear waste on a San Diego beach, calling the project an "Independent Spent Fuel Storage Installation," or an "ISFSI." The permit was approved on October 6, 2015.
- 17. Unless the permit is revoked, Edison will be permitted to bury at least 75 storage modules filled with the nuclear waste produced by Edison as part of its business operations. There are 2,668 spent fuel assemblies in wet storage pools in buildings in which Edison conducted the business that produced the nuclear waste. The fuel is highly radioactive and will remain so for thousands of years.
- 18. Plaintiffs seek an administrative writ of mandate, or a declaration, directing Respondent and Defendant California Coastal Commission (CC) to set aside its 6 October 2015 decision to grant Southern California Edison (Edison) a permit to construct and operate a facility to store nuclear waste produced by Edison as part of its business operations.

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- 20. Edison's reckless and knowing conduct in deploying defective steam generators that caused the plant to close brought the need to find an intermediate storage to a head. Edison was repeatedly warned that there were fatal flaws in the design Edison chose for its new steam generators deployed by Edison at the San Onofre plant in 2010 and 2011. The warnings were in Edison emails, action items, minutes, reports, and letters. The new steam generators suffered from very high void fraction and produced steam too hot for the new steam generators to handle. It was these defects that caused the Unit 3 generators to spring a leak. Similar tube wear was then discovered in Unit 2 and the plant was closed, precipitating the need to find an intermediate storage site for the spent fuel.
- 21. In approving the permit to allow 3,600,000 lbs of high level nuclear waste to be buried on the beach 100 feet from the shoreline with no plan for removal, despite storm warnings, and without requiring Edison to show it had exhausted other reasonable alternatives, the Commission (1) proceeded without, or in excess of, jurisdiction; (2) did not provide a fair hearing because of rampant and widespread ex parte communications with Edison; and (3) abused its discretion because the Commission failed to proceed in the manner required by law, which requires the Commission to protect the California Coast lines from such hazardous waste.
- 22. The Commission's decision finding that there are no alternatives is not support by substantial evidence. The whole record and the relevant evidence demonstrates that the Commission's reliance on Edison's statements -- in light of Edison's habitual misrepresentations and reckless conduct in deploying the failed steam generators that closed the plant -- was wholly unjustified. No reasonable person would have granted a permit to store the nuclear waste on the beach 100 feet from the shoreline on this record.
- 23. Edison did not adequately and in good faith attempt to investigate or develop any other alternatives to the coastal site, other than those already in the licensed area.
- 24. The Coastal Commission (CC), in connection with the issuance of the permit, accepted an agreement with Edison under which Edison would pay the CC in excess of \$5,000,000. The CC Commissioners also obtained an unenforceable indemnity agreement from Edison in which Edison agreed to indemnify the CC Commissioners for the intentionally

PETITION TO SET ASIDE CALIFORNIA COASTAL COMMISSION SAN ONOFRE WASTE PERMIT





32. Does 1 through 50 are persons or entities unknown to the Plaintiffs and Petitioners at this time who may have some interest that may be affected by this action sufficient to render them necessary parties. Plaintiffs will amend this petition to specifically identify each such person or entity as a respondent and/or real party in interest, if and when their identities become known.

VENUE

33. Venue is proper in this Court, because the property that is the subject of this litigation is located in the County of San Diego.

ABANDONMENT OF SAFETY OBLIGATION

34. A Memorandum of Understanding (MOU) has been entered into by a 7-member Interjurisdictional Planning Committee (IPC) which includes the Counties of Orange and San Diego; the Cities of Dana Point, San Juan Capistrano and San Clemente; Camp Pendleton; California, (local jurisdictions) and California State Parks. Under the MOU, local jurisdictions prepare annual budgets identifying specific baseline activities related to radiological emergency planning. Although each of the local jurisdictions are well-intended, none have the infrastructure

1	capability to provide meaningful emergency services in the event of a major nuclear event at San			
2	Onofre. These jurisdictions do not have established and understood emergency protocols; they do			
3	not have the training in nuclear emergency procedures, and they lack the staff and equipment			
4	needed for a radiation emergency event at San Onofe. The Coastal Commission decision to issue			
5	the permit for Edison's nuclear waste site at San Onofe leaves Southern California families living			
6	under a nuclear Sword of Damocles.			
7	EDISON FAILED TO CONSIDER ALTERNATIVES			
8	35. SCE's current plan is to transfer the fuel assemblies from two spent fuel pools			
9	(SFPs) to dry cask storage, creating an on-site ISFSI, or indefinite nuclear waste site, at San			
10	Onofre. There are several reasons why the Coastal Commission should not have rushed to grant			
11	Edison permission to store its nuclear waste at the location of the decommissioned San Onofre			
12	plant on the San Diego coastline:			
13 14	* SCE's Aging Management Program (AMP), required by the NRC and by Special Condition #2 by which the California Coastal Commission permit was granted, is still "in development"			
15 16	*SCE's AMP, not available at present nor expected to be developed within the next 20 years, is needed for monitoring and inspection of the storage casks to ensure the long-term transportability and eventual removal of the casks ISFSI from the site			
17 18	*SCE's AMP, the utility mechanism for monitoring and maintenance of the spent fuel casks, has not been previously demonstrated nor is it clear when these techniques, tools and standards would become available for use at San Onofre.			
19	*SCE's yet undeveloped AMP is required to provide the monitoring of environmental			
20	conditions, i.e. temperature and humidity, the influencing risks of corrosion and degradation of the casks hence prohibiting SCE's removal the casks as planned in 2051			
21	*SCE's undeveloped AMP is also required to provide structural integrity validation of the			
22	casks planned for removal by visual observation, surface measurements, and other inspection techniques related to the physical condition of the casks			
23	*SCE's intended but yet undeveloped AMP cannot deliver the combination of the			
24	inspections required by the NRC and Special Condition #2 of the California Coastal Commission's permit, to monitor and maintain the condition of the casks throughout their			
25	service life, provide assurance they are performing as designed and allowing the spent fuel to be safely removed when the DOE provides an interim storage facility or permanent repository			
26	* Due to SCE's inability to develop and deliver the required AMP, if the steel fuel storage			
2728	casks should degrade becoming unsafe to transport, the proposed ISFSI would be possibly be required for many decades and the temporary permit would consequently transition San Onofre to a permanent nuclear waste storage site continuing and accelerating increased			

risk to public safety and the potential to adversely affect marine and visual resources and coastal access

- * The California Commission own 'Potential for Reasonably Foreseeable Impacts' within the Conclusion of the permit states. "Therefore there is the potential that the proposed ISFSI site will be undermined by shoreline retreat and/or subjected to flooding as a result of sea level rise, storm waves or a tsunami event. Despite the claim of the facility's robust design, these geologic forces would eventually result in a loss of stability and structural integrity, and cause the discharge of debris into the coastal ocean to the detriment of water quality and marine organisms."
- 36. First, dry casks on nuclear reactor sites stored in ISFSI were originally intended as a temporary solution until the Department of Energy (DOE) developed a permanent disposal in a deep geologic repository. However, due to the DOE's failure to establish a permanent nuclear waste repository, on-site storage of nuclear waste on a somewhat permanent basis has become a dangerous default situation, especially when the nuclear reactors are located on the coastline in a high-density population area.
- 37. Second, the original site decision for San Onofre was chosen for the purpose of being within close proximity to population centers, and thus, close to the users of the energy produced. However, the same reasoning does not apply for siting decisions for nuclear waste storage as, in the event of an emergency, there is greater per capita risk in siting the ISFSI near densely populated areas -- a risk that only increases with the length of time nuclear waste remains in the populated area.
- 38. Third, the general public did not agree to indefinite nuclear waste storage at the nuclear plant site when the plant was originally approved and put online.
 - *Although available by the SCE filing date (6-15-2015) the CA Coastal Commission staff permit application review did not include the NRC approved SCE Emergency Planning (EP) exemptions for San Onofre (6-4 and 6-5 2015). These NTC EP exemptions were not disclosed in the public review process nor included in the documentation encompassed by CA Coastal Commission staff in the permit's application under IV Finding and Declarations, **B. OTHER AGENCY APPROVALS U.S. Nuclear Regulatory Commission**; *Federal Preemption*. Those NRC EP approvals were also accompanied by a Federal Preemptive notification to U.S. Department of Homeland Security, Federal Emergency Management Agency (FEMA), on June 5, 2015, that FEMA is no longer required to review, monitor and report activities associated with off-site radiological emergency planning and preparedness as they relate to San Onofre under the provisions of 44 CFT 350. The NRC further requested FEMA notify the appropriate state and local governments that off-site radiological emergency plans and preparedness, as described in 44 CFR 350, are no longer required.

*As such, these approved NRC EP exemptions:

- eliminate the breadth of SCE's obligations to keep the State emergency response organizations and the general public informed in the event of an emergency;
- decrease the safeguards to public health and safety in the event of a credible and foreseeable accident scenario i.e. cask drop;
- discontinue the federal requirement for support to State planning and monitoring activities resulting in a clear reduction in State's emergency plan effectiveness by reducing the ability to effectively respond to an emergency;
- propose notification and interaction procedures with State and local agencies are eliminated almost in their entirety, based on the erroneous assumption that San Onofre, in its present state with spent fuel in the cooling pool, be viewed only as an ISFSI;
- fail to adequately analyze a number of credible scenarios and consider circumstances unique to California's coastal nuclear facilities: risks to public health and safety associated with and exacerbated by the state's seismicity and risk of tsunami;
- provide reasonable assurance that the health, safety, common defense and security of the public will be endangered.
- 39. Fourth, the highly-concentrated salt air environment at the San Onofre site poses increased degradation risks of chloride-induced stress corrosion cracking (CISCC) due to the close proximity to the ocean and prevailing winds. Furthermore, while the San Onofre nuclear plant needed cold ocean water to condense steam back to water, the ISFSI does not need to be located within close proximity to the ocean. In fact, coastal sites are more likely to result in CISCC as the CISCC process does not begin until the surface temperature of the canisters drops below 85 degrees C (185 degrees F). It likely that during the fourteen (14) to thirty (30) year cooling period planned by Edison, the canisters will have cooled enough for CISCC to commence and early cracking could occur.
- 40. In a staff review of the proposal, the Coastal Commission itself stated "it cannot be ignored that the proposed ISFSI location within the NIA lies just over 100 feet from the shoreline, at some of the lowest grade elevations present at the San Onofre site....the site could potentially be exposed to several coastal hazards depending on how long the facility were to remain in place."
- 41. Most importantly, the Coastal Commission presented the alternative of "shipping the material to an off-site ISFSI to be developed by SCE." Under this alternative, Edison could apply for a specific license to develop its own ISFSI away from the San Onofre licensed area.

However, Edison admitted it did not investigate any alternative locations away from coastal environments due to permitting restrictions. Below are examples of proposed off-site alternatives:

THE PALO VERDE ALTERNATIVE

42. Moving Edison's nuclear waste at San Onofre to Edison's nuclear waste site at Palo Verde is a better alternative than leaving it on San Diego's shoreline. As these pictures show, trucks can move nuclear waste:



43. As this picture below shows, there is a remote area at the Palo Verde nuclear plant (Edison holds 15% ownership) in the desert where nuclear waste is already stored. The Palo Verde Nuclear Generating Station is a nuclear power plant located near Tonopah, Arizona in western Arizona:



FISHEL CALIFORNIA ALTERNATIVE

44. Fishel is located in East San Bernardino County, CA. Fishel has a population of zero (0); the closest improved property, a water pumping plant, is thirteen (13) miles away, and it is located next within close proximity to a railroad line. Railroads have been demonstrated to be one of the safest ways to transport nuclear waste and other hazardous material. Fishel is not a designated wilderness area and is comprised of land mostly owned by the Federal Government.

EAST CAMP PENDLETON ALTERNATIVE

45. One potential location evaluated by Edison and the Coastal Commission was the San Onofre "Mesa" location, which is an Edison-operated, non-nuclear auxiliary facility located within Camp Pendleton. The Mesa location has the advantages of being a previously-developed site under Edison ownership, but like San Onofre, it is located on an easement granted by the Navy to be terminated in 2017.

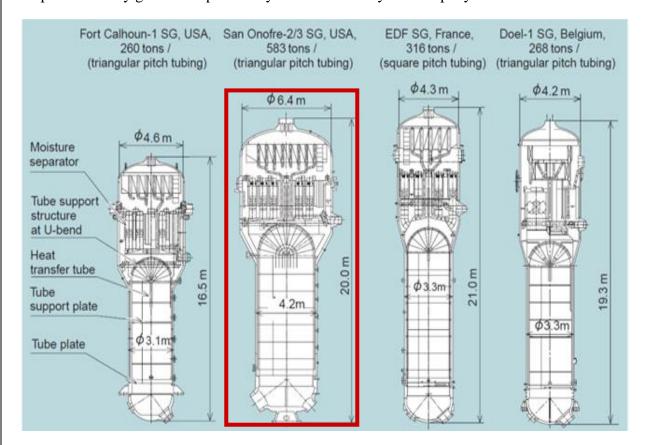
EDISON HAD NO PLAN TO CLEAN UP THE WASTE ITS BUSINESS PRODUCED

- 46. Edison's nuclear power reactors at San Onofre were licensed based on a set of requirements called the plant's "licensing basis." A principal licensing basis document is the plant's final safety analysis report (FSAR). The FSAR and the plant's Nuclear Regulatory Commission (NRC) license and associated technical specifications are the principal regulatory documents describing how the plant is designed, constructed, and operated.
- 47. Because a plant's design and operation are not static, certain changes are necessary over the course of a facility's operating life. Reactor licensees must follow NRC regulations to justify and implement changes in the design basis and licensing basis for their facilities, and are required to document such changes in the FSAR. 10 CFR 50.71(e) requires the FSAR to be periodically **updated.** The objectives of 10 CFR 50.71(e) are to ensure that licensees maintain the information in the Updated FSAR (UFSAR) to reflect the current status of the facility and address new issues as they arise so that the UFSAR can be used as a reference document in safety analysis.
- 48. The NRC has defined the changes that a licensee may make to a licensed facility without prior NRC approval. Pursuant to 10 CFR 50.59(c)(1), without obtaining a license

1	anchunicit, the holder of a feetise may. (1) make changes in the facility as described in the 15Ak			
2	(as updated), or (2) make changes in the procedures as described in the FSAR (as updated), and (3)			
3	conduct tests or experiments not described in the FSAR (as updated) only if a change to the			
4	technical specifications incorporated in the license is not required, and the change, test or			
5	experiment does not meet any of the eight 10 CFR 50.59(c)(2) criteria.			
6	49. In 2004, Edison applied to the California Public Utilities Commission (CPUC) for			
7	an order permitting Edison to install new steam generators at its San Onofre plant. In December			
8	2005, the CPUC decided to allow Edison to proceed with the new steam generators at San Onofre.			
9	On 30 November 2004 Edison's Vice President, Dwight Nunn, described the significant design			
10	issues and the increased safety threat of the new steam generators in a letter (Nunn Letter). The 30			
11	November 2004 Nunn letter provides in pertinent part:			
12	SOUTHERN CALIFORNIA Dwight E. Nunn			
13	November 30, 2004 November 30, 2004			
14	Mr. Akira Sawa			
15	General Manager Mitsubishi Heavy Industries, LTD			
16	Kobe Shipyard & Machinery Works 1-1, Wadasaki-Cho 1-Chome			
17	Hyogo-Ku Kobe 652-8585			
18	Japan			
19	Dear Mr. Sawa:			
20	Subject: Replacement Steam Generators San Onofre Nuclear Generating Station, Units 2 & 3			
21	**			
22	This will be one of the largest steam generators ever built for the United States and represents a significant increase in size from those that Mitsubishi Heavy Industries has built in the past. It will require Mitsubishi Heavy Industries to evolve a new design beyond that which they currently have available. Such design evolutions require a careful, well thought approach that fully evaluates the risks inherent in creating a new and significantly larger steam generator. Such design evolutions tend to challenge the capability of existing models and engineering tools used for proven steam generator designs. Success in developing a new and larger steam generator design requires a full understanding of the			
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27	risks inherent in this process and putting in place measures to manage these risks.			

Based upon these observations, I am concerned that there is the potential that design flaws could be inadvertently introduced into the steam generator design that will lead to unacceptable consequences (e.g., tube wear and eventually tube plugging). This would be a disastrous outcome for both of us and a result each of our companies desire to avoid. In

- 50. Edison "souped-up" the new steam generators with 9,727 tubes -- 377 more than were in the original generators. In order to make room for the increased tubes, Edison had to remove stabilizing components such as the stay cylinder, supporting the tube sheet, and the "egg crate" tube support.
- 51. The drawings below illustrate how much bigger the new steam generators were in comparison to any generators previously manufactured by the company Edison hired:



52. After the defective steam generators deployed by Edison at its San Onofre plant failed eleven (11) months into their joint use, the Atomic Safety and Licensing Board found Edison's new steam generators "differed in design from the original steam generators." For example, each new steam generator (1) has 9,727 tubes, which is 377 more than are in the original; (2) does not have a stay cylinder supporting the tube sheet; and (3) has a broached tube

53. In order to make room for the 377 new and longer tubes, Edison removed key mechanisms from the stabilizing components of the new steam generators. The following diagrams illustrate the location of the additional 377 tubes, the removed stay cylinder, and the removed egg crate tube support.

Edison's Overloaded Steam Generators (377 More Tubes than in Original)



54. In order to make room for the 377 tubes, Edison removed the egg crate tube support and stay cylinder parts of the steam generators stabilization system:

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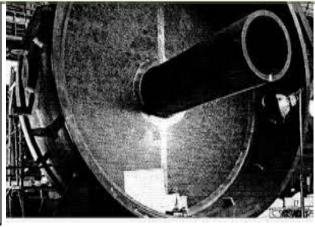
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Edison removed egg crate support

Edison removed massive stay cylinder





55. Section 10 CFR 50.59 stipulates that the FSAR (as updated) is expected to include FSAR changes resulting from evaluations performed pursuant to the regulation (10 CFR 50.59(c)(3)) such as Edison's plan to alter the design of the new steam generators with more tubes and reduced structural protections. Edison was required under this provision and directed to maintain records of changes in the facility (10 CFR 50.59 (d)(1)) and to submit a report containing a brief description of any changes, tests, and experiments made under this regulation, including a summary of the evaluation of each (10 CFR 50.59 (d)(2)). According to 10 CFR 50.59(d)(2), this report must be submitted to NRC at intervals not to exceed 24 months.

- 56. Because the new design's additional tubes and reduced stabilization increased safety risks, the safety license exemption was not available under 10 CFR 50.59. Edison's changes resulted in more than a minimal increase in the likelihood of the occurrence of a malfunction in the consequences of an accident, and increased the consequences of a malfunction of a structure, system and components (SSC).
- 57. Edison crossed over the line and went from avoidance, to evasion, of § 50.59 even before the "AVB Design Team recognized that the design for the San Onofre RSGs resulted in higher steam quality (void fraction) than previous designs;" Edison did not implement "changes in design to reduce the void fraction" because the potential changes "could impede the ability to justify the RSG design under the provisions of 10 C.F.R. 50.59."

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² Mitsubishi Heavy Industries (MHI) Root Cause Report p.22

- 58. Edison's failure to obtain a safety license amendment was not excused by the §50.59 exemption. Edison's Boguslaw Olech, a key engineer who worked for Edison on the design and deployment of the new steam generators, admitted that Edison adopted the policy to evade the safety license amendment under the veil of §50.59. According to Olech, the new steam generators' design requirements and improvements had to be solved so they could be installed under the § 50.59 rule.³
- 59. The former Deputy Regional Administrator of the Nuclear Regulatory Commission, Elmo Collins, admitted that Edison should have requested a license amendment from the NRC prior to deploying the defective steam generators at San Onofre. Collins also admitted "the steam generator design was fundamentally flawed and would not have been approved as designed."
- 60. The CC Commissioners knew Edison had operated its nuclear waste-producing business for over 40 years but failed to develop a plan to locate the Edison nuclear waste to a safe location not on San Diego's coastline. The CC Commissioners knew Edison could not state it could remove its nuclear waste it seeks to bury on the beach by even as late as 2051. The 75 modules will be buried below sea level in concrete, making their safe removal infeasible. The CC Commissioners knew Edison had no plan to relocate Edison's nuclear waste from the beach in San Diego.
- 61. It appears that on 7 June 2006, Edison notified the NRC of Edison's plan to install new steam generators at San Onofre. Edison did not inform the NRC that the AVB Design Team had discovered a void fraction problem and Edison had limited correctives to those that would not alert the NRC. Instead, the SCE briefing to the NRC indicated there would be no associated power uprate (i.e. there was to be no increase in San Onofre's maximum power level).
- 62. The briefing document identified the changes as key design "improvements." Edison referred to the limited anti-vibration bar changes as "**improved** anti-vibration bar design." The briefing document also falsely identified that both the original and replacement steam generators were **identical in height.** The briefing informed the NRC that the new steam

³ 20 March 2012 "Steam Generators: Design and details" Atomic Power Review, p. 2

generators were 643.6 tons, which was 23.6 tons heavier than the original, and that the replacement and would have more tubes than the original (9,727 versus 9,350).

63. Edison's PowerPoint for the new steam generator project at San Onofre did not inform the reader as to the negative void problem; it referred to the changes in the steam generators as "improvements:"



San Onofre Nuclear Generating Station Units 2 & 3

STEAM GENERATOR REPLACEMENT PROJECT OVERVIEW

June 7, 2006



Some Key Design Improvements



- Larger Surface Area
- Alloy 690 Thermally Treated Tubing
- Improved AVB Design
- Integral Steam Nozzle
- Improved Material for Tube Supports

Forged Shell



S/G 3A Lower and Middle Shell S/G 2A Balance Ring, Extension Ring, & Tubesheet



64. Edison deployed the defective steam generators, despite having been warned of their defects. The defective steam generators failed within eleven (11) months, causing the closure of the San Onofre plant.

UNREASONABLE RELIANCE ON SCE REPRESENTATIONS NO ALTERNATIVES

- 65. Edison seeks to bury its nuclear waste on the beach in San Diego as a result of its reckless conduct in deploying four (4) defective steam generators at its nuclear plant at San Onofre. Edison has made a series of false statements to California State officials at the CPUC and to the public that demonstrate that it is unreasonable to rely on Edison's statements regarding San Onofre.
- 66. The permit should be revoked until Edison identified and obtains an off-site location for the ISFSI. Edison effort to escape responsibility for storing the nuclear waste its business activities produced raises unacceptable, life-threatening risks for the people living in and around San Onofre. In the event someone else or the federal government does not provide a permanent repository or other offsite interim storage facility emerges, or if the shipment of San Onofre's spent fuel to an off-site location is otherwise delayed, or if the steel fuel storage casks proposed for use in the ISFSI degraded to the point of becoming unsafe to transport, the proposed ISFSI could be required beyond 2051, possibly for many decades. Under this scenario the ISFSI would eventually be exposed to coastal flooding and erosion hazards beyond its design capacity, or else would require protection by replacing or expanding the existing San Onofre shoreline armoring. In either situation, retention of the ISFSI beyond 2051 would have the potential to adversely affect marine and visual resources and coastal access.

UNLAWFUL INDEMNIFICATION

67. In order to induce the CC Commissioners to grant the unlawful permit which the CC members knew to be unlawful, Edison agreed to indemnify the CC Commissioners to indemnify and hold harmless the Commission, its officers, agents, and employees with respect to the Commission's approval of the project against any and all liability.

1	68.	The indemnity agreement is void because it violates Cal Civ. Code § 2773	
2	prohibition of indemnification agreements for acts known by such person at the time of doing it to		
3	be unlawful.		
4		THE ADMINISTRATIVE DECISION	
5	69.	The administrative decision in issuing the October 6, 2015 permit was the result of	
6	arbitrary or capricious action by the Coastal Commission or an officer of the Coastal Commission		
7	acting in his or her capacity.		
8	70.	Petitioners have no further administrative remedies in that the decision is final	
9	upon its issuance.		
10	71.	Petitioners do not have a plain, speedy or adequate remedy in the law.	
11	72.	Petitioners seek judicial review because:	
12		- There has been a prejudicial abuse of discretion in that the Commission has	
13		not proceeded in a manner required by law;	
14		- The Commission has proceeded in excess of its jurisdiction;	
15		- The decision by the Commission to issue the permit is not supported by the	
16		record or the findings;	
17		- No substantial evidence supports the permit;	
18		- Petitioners were denied due process of law in the proceedings.	
19	73.	Attorney's fees are proper to Petitioners pursuant to California Code of Civil	
20	Procedure § 10	021.5 and/or Government Code § 800.	
21	///		
22	///		
23	///		
24	///		
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		25	

PETITION TO SET ASIDE CALIFORNIA COASTAL COMMISSION SAN ONOFRE WASTE PERMIT

WHEREFORE PLAINTIFFS PRAY FOR THE FOLLOWING RELIEF 1. For a writ of mandate vacating the order of the California Coastal Commission issuing to Southern California Edison under Application NO. 9-15-0228 For a declaration that the Permit issued by the California Coastal Commission to Southern California Edison under Application NO. NO. 9-15-0228 was issued in excess of the Coastal Commission authority under law and is declared null and void. 3. For attorney's fees according to statute; 4. Costs; and For all other relief the Court deems proper. 5. AGUIRRE & SEVERSON, LLP Dated: November 3, 2015 Michael J. Aguirre, Esq., Attorneys for Petitioners

VERIFICATION

I am a petitioner in this proceeding. The facts alleged in the above petition are true of my own knowledge.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Date: 11/3/2015

ersight, Inc.

11-03-15 Date:

Patricia Borchmann