EPA/RRT testing, use

And Verification of OSE II

US Federal Government, and RRT groups that have associated with the OSEI Corporations product Oil Spill Eater II Since 1989

2010, EPA RRT IV officials witnessed the successful Clean-up/demonstration of OSE II on marsh grass and sandy beach at Waveland Mississippi during the BP Deep Horizon Spill.

Link http://osei.us/archives/819 Pictures were sent to the EPA several months after the demonstration, showing the area where OSE II was applied on the sand and marsh grass, and it was still clean and the marsh grass was thriving. The marsh grass adjacent to the marsh grass where OSE II was applied was brown and dying from Corexit. OSE II was also used to perform Clean-up for the Pass Christian Harbor in Mississippi where allot of oil had oiled the port see link https://www.osei.us/photoalbums/harbor-clean-up

EPA contractor utilizing OSE II on US navigable waters, on the Osage Indian Reservation in Oklahoma see link https://www.osei.us/wp-content/uploads/Oklahoma-Osage-Indian-Reservation-Clean-up-for-US-EPA-RRT-VI-1-XXXXZZ.pdf Where the US EPA Region VI approved OSE II for use on US Navigable waters.





1992, the US EPA also spent millions testing OSE II through NETAC for bioremediation protocol development of which the OSEI Corporation CEO set in on the meetings in Pittsburgh discussing and tweaking the laboratory as well as the test protocol. OSE II's successful efficacy tests on Tier II which was peer-reviewed by 31 scientists, that established the fact that OSE II should be

tested in Tier II open water mesocosm tests. OSE II proved successful at remediating the heavy Alaska North Slope oil and was approved to have Tier III testing carried out on OSE II.

The initial Tier III efficacy tests showed OSE II working well once again, Tier III also included toxicity testing on two separate marine species, which showed OSE II was far less toxic than the EPA standard stating a product is virtually non-toxic if it show > 100 mg/l on a LD 50 of LC 50 toxicity test, OSE II average toxicity test is 1900 to 10,000, see link https://www.osei.us/wp-content/uploads/US-EPA-required-tests-1.pdf and the second set of Toxicity tests see link https://www.osei.us/wp-content/uploads/US-EPA-Netac-Tests-1.pdf

and two sets of efficacy tests see link for first set of efficacy tests https://www.osei.us/wp-content/uploads/government-test-1.pdf and the second set of efficacy tests https://www.osei.us/wp-content/uploads/government-test-2.pdf and Tier III tests, and now OSE II has had 51 toxicity tests see from 11 different country governments at this link https://www.osei.us/toxicity-tests

The US EPA had full knowledge of the great Efficacy and toxicity tests on OSE II after this testing was completed in 1992, since it was their contract.

The information above for the EPA/NETAC testing was used by EPA, David Lopez along with the Tx A&M study using a similar EPA/NETAC efficacy test see link https://www.osei.us/wp-content/uploads/TAMU-SaltWaterEfficacyTest.pdf **which was deemed acceptable and used to place OSE II onto the original EPA NCP Listing list in 1996.**

2011, the department of Interior performed a test comparing OSE II to dispersants (Corexit 9527A and 9500A), and mechanical clean-up in cold water climate. OSE II cleaned up, 67% of the heavy Dielectric oil, while the dispersants were not successful at being effective (sinking oil into the water column) and the mechanical clean-up was able to clean up its normal 2 to 8%. OSE II was proven by DOI to be the superior clean-up method. See test summary at link https://www.osei.us/pdf%20files/OSEI-Summary-of-Department-of-Interior.pdf

2008, NOAA officials visited a demonstration of OSE II, in Mo Hang Port South Korea, where the gentleman in the yellow jacket the head of the South Korean Coast Guard explained the great successful testing of OSE II, and the application of OSE II on the shoreline with South Korean Coast Guard, government officials and OSE II was added to the approval list for oil spill clean-up

products in South Korea as well. These are pictures of NOAA official wearing NOAA caps at the successful demonstration.





The conclusion of the successful test showed OSE II remediating the Bunker C oil to CO 2 and water, and showed there were small crabs that were living in the water for the duration of the test unharmed. The RRT IV bioremediation response plan has stated bioremediation (microbes and nutrients) is not effective for heavy oils, this is true for category MC and NA, however this demonstration shows it is not true for OSE II, since OSE II bioremediated 98% the Bunker C oil to CO2 and water while protecting the small crabs living on the bottom of the test container. See link https://www.osei.us/wp-content/uploads/South-Korea-Hebie-Spirit-Clean-complete-pictures-and-captions-XX.pdf

2012, on March 8th, RRT VII concluded an extensive test with OSE II on heavy in emulsion waste oil with water from Spring Lake and water from the Missouri river. The test conclusively showed that OSE II increased bacterial numbers, and bioremediated the heavy in emulsion oil fractions, where OSE II reduced the DRO (lighter ends of the oil) on average 72.5% and the ORO (heavier ends of the oil) by 73.5% on average. to CO2 and water for the duration of the test time, just a short time more and the DRO and ORO would have been 100%. See this link https://www.osei.us/pdf%20files/RRT%20plus%20testing.pdf You can also see the heavy in emulsion oil being caused to float from the OSE II application for the duration of the test as well, proving again OSE II does not sink oil into the water column.

2013, the CEO of the OSEI Corporation (Steven Pedigo) has also set on the science and technology sub-committee for RRT VI developing information, in regards to Oil Spill Eater II (OSE II) including the fact heavy in emulsion oil is easily remediated with OSE II as well as hydrocarbons from C1 to C50 as well as halogenated hydrocarbons and pesticides. See link https://spaces.hightail.com/receive/I070WdjpdX

1992, OSE II has been used on US Military bases domestically as well as globally, since 1990. See

link to DOD Cage Code and NSN numbers https://www.osei.us/department-of-defense

OSE II is procured directly by bases, through the rules of Sole Source as well, shipping directly to bases, and to Stacey Depot and Norfolk as well depending on what part of the world the military is shipping the drums. The rules of sole source document is on page 6 of this link https://www.osei.us/wp-content/uploads/OSE-II-used-on-over-200-350-spills-by-The-US-NAVY-Point-Loma-Fuel-Farm-San-diego-Bay-California-.pdf and this one from Navy base Norfolk, where a phase three environmental Health review was performed showing military personnel would not be required to wear PPE suites with OSE II, just goggles and gloves, numerous tests were performed with OSE II and Norfolk navy base used OSE II on spills see link https://www.osei.us/wp-content/uploads/OSE-II-tested-and-utilized-by-the-Navy-In-Norfolk-Virginia.pdf

Approximately 1995, The Navy in Key West Florida tested OSE II as a deck cleaner successfully, and where the Navy also used OSE II on ocean clean-ups where there are corral reefs, continually as well see link https://www.osei.us/wp-content/uploads/OSE-II-tested-and-used-by-the-Navy-in-Key-West-Florida.pdf

1992 OSE II is also approved for NATO Globally as well see link https://www.osei.us/wp-content/uploads/AeroBaseGroup_18x54.pdf and approved as a sole source for commanders through Navy Denix as well see link https://www.osei.us/wp-content/uploads/osei_navy_denix.pdf

2002 OSE II had cleaned up over 200 spill in the San Diego Bay Port where the Navy had accomplished this in 3.5 years, and where, the US EPA Washington DC, Debra Dietrich, Nich Nichol's, and RRT 9 members regional EPA Bill Roberson, Coast Guard and Yvonne Adasis of California Fish and Wildlife, Admiral Lively and Steven Pedigo of the OSEI Corporation all met with Steve Fry who manages the Navy Fuel farm at Point Loma for the Navy. Steve Fry relayed the information they have cleaned up over 200 spills in a 3.5-year period, with Whales and Dolphins around, with no adverse effects, and the Navy performed more complete clean ups then had been carried out previous to utilizing OSE II. This means OSE II has a great proven track record in US Navigable waters with NO natural resource destruction and no harm to anyone while permanently removing the spilled fuel/oils from the environment. The US Military use OSE II to this day. See link https://www.osei.us/wp-content/uploads/OSE-II-used-on-over-200-350-spills-by-The-US-NAVY-Point-Loma-Fuel-Farm-San-diego-Bay-California-.pdf

2016 the NRT, as well as RRT 9 have been presented the OSE II clean-up of 150,000 gallon or 550,000-liter crude oil spill in Bayless State Nigeria. The 150,000 gallons spilled was in the open ocean, covered 18 kilometers of shoreline, where a large section of shoreline was covered in Mangroves, that were covered in oil as well. Fishing was shut down for 3 weeks.

OSE II application started within 24 hours of the spill release, while a container of OSE II was air-shipped from Dallas Texas. OSE II was applied to oil on the shoreline and Mangroves as well as to oil in the Atlantic Ocean. Workers took off boots where OSE II had been applied to the shoreline, and NO worker became sick from exposure to OSE II. In three and a half weeks, tests showed that 99.9% of the oil had been removed from the ocean water, and 97.9 % of the oil had been removed from the shoreline and Mangroves **with no natural resource damages**. Fishing was re-opened and not one fish or bivalve was found to have any oil in them or coating them, since OSE II causes oil to float, and prevents hydrocarbons from sinking into the water column. The success rate for this volume of released oil has never been accomplished in the US or anywhere in the world, as of 8/6/2026. See link to 554-page document with testing https://www.osei.us/wp-content/uploads/OSEI-NIgeria-AGIP-Brass-Terminal-Clean-up-complete-data-set-4-14-14-.pdf and the video at this link https://www.osei.us/archives/1519

Also, see link to the RRT 9 presentation, poor audio quality due to a Coast recording mal function https://www.youtube.com/embed/piG1RAiLJ04

2010, British Petroleum (BP) requested the use of OSE II, to use and test for navigable waters BP Deep Horizon spill, world's largest spill.

https://www.osei.us/wp-content/uploads/BP-request-OSE-II-demonstration-for-Gulf-spill-1.pdf

2010 OSE II used to clean-up BP Macondo oil, pouring into Pass Christian Harbor in Mississippi, with the Harbor Master overseeing the clean-up, see link https://www.osei.us/photoalbums/harbor-clean-up

2010, the US EPA, US Coast Guard, NOAA, OSPRY, LSU and others, all participated in the testing of OSE II by BP during the Macondo spill where great results were produced! This is the first chance OSE II had at being tested by the responsible party of a major oil spill during the

spill, in fact the largest spill in US history. See link https://www.osei.us/pdf%20files/osei_sum.pdf

2010 Requests by state senators for the use of OSE II during the BP spill, which were all were sent to Unified Command/ Coast Guard and EPA.

1) A letter from the Office of A.G. Crowe requesting the use of OSE II See link https://www.osei.us/agcrowe.pdf

2) A letter from Senator Gollot of Mississippi requesting the use of OSE II to unified command of the BP spill. See link https://www.osei.us/request%20rrt.pdf

3) A request for the use of OSE II to unified command of the BP spill through a letter from Senator Hank Erwin to RRT4 Alabama State Senator support for OSE II See link https://www.osei.us/pdf%20files/rrt4.pdf

4) **2010 City of Destin requested the use of OSE II to Unified command of the BP spill. Destin City Council Minutes 07-27-2010 demonstration of OSE II Special (Council member Dentin moved that the City sends a letter to the Unified Command, or appropriate authority,** seeking permission to use the Oil Spill Eater (OSE)II product, that was demonstrated to the Dentin City Council on July27th, on the beaches within the corporate limits of the City of Dentin; If and when it becomes necessary. Motion was seconded by Council member Weidenhamer. Motion passes 6-0 (Council members

Trammell, Weidenhamer, Dentin, Bagby, Wood and Hines voted "yes" Council member Williges was absent). 8. Councilmember Bagby 9. Council member, Wood https://www.osei.us/wp-content/uploads/CityCouncilMinutes08-02-20101.pdf

2002, the US department of Energy has successfully utilized OSE II at their Sunnoco terminal as well for a valve leak on a storage tank, see link https://www.osei.us/wp-content/uploads/Department_of_Energy_OSEII.pdf
The two Co-chairs of the RRT system (US EPA and US Coast Guard), as well as the next two most important groups in the RRT system NOAA and DOI, NOAA see Hebie Spirt oil spill South Korea above, and Department of Interior see DOI test of OSE II comparing to two Corexit dispersants above as well, these Co-Chairs of the RRT's and these second two US agencies have extensive knowledge, testing, use, and witnessing of OSE II in use and being tested.

The US EPA RRT VI stated they cannot find a reason not to use OSE II and the fact that OSE II meets and exceeds the Clean water act by actually permanently removing oil/hydrocarbon based spills from the environment, by converting it to CO2 and water, while being non-toxic to responders, and protecting marine species, from the toxicity of the oil, adding no toxicity from the use of OSE II, protecting the environment, and limiting the impact of the spill to its original

area of contamination, limiting and preventing natural resource damages in line with the US EPA's mission and Delegated charge from the President of the United States, to protect the natural resources of the United States of America, and the Health, Safety, and Welfare of the citizens of the US, where OSE II has no ill-fated **tradeoffs.**

Numerous other members of the RRT have extensive experience as well with OSE II, on water spills as well as soil spills, these can be viewed in our technical library, video section and photo section, and on our Clean Ups section on the OSEI Corporation web site at www.osei.us RRT VI, RRT VII and RRT VIX.

The NRT, RRT's have full knowledge of the enormous experience of OSE II's successful clean-ups in the US and Globally, as well as all the technical information in regards to OSE II, since packets of information has been sent to each member of the 12 RRT's in the past, which is how the US has arrived at handling oil spills today, where OSE II, the proven safe, efficacious product is setting ready to be utilized at a moment's notice, in the US and Globally, while also reducing clean-up costs by 77% on average.

OSE II emulates Mother-Nature's own process, we just found a means to speed it up! OSE II the safe for humans, non-toxic to marine species, product that permanently removes hydrocarbons or hydrocarbon-based contaminants from the environment, on over 95,000 spills since 1989. See link https://www.osei.us/tech-library-pdfs/2011/4-OSEI%20Manual_EmulatingNature.pdf

Steven Pedigo

CEO OSEI Corporation