



NRC NEWSLETTER

A message from Lou O'Brien

It has been a while since our last edition to our newsletter and whilst I apologize for that, needless to say we have been busy. A lot of great things have happened since our last edition as we continue to grow our business adding both new services and further expanding geographically.

In late 2017, we completed two acquisitions. Boom Technology, Inc of Gorham, ME was acquired in November 2016. Boom Tech was a leading supplier of land-based and marine spill response, industrial cleaning, tank cleaning, disaster cleanup, facility and marine equipment/cargo decontamination, and soil and groundwater remediation. This acquisition strengthens our geographical position in the Northeast and adds additional service capability in the New England region. In addition, we acquired Water Truck Services, Inc. of Sherwood, OR. WTS adds a new service capability in the Pacific Northwest with the addition of sludge and waste water treatment services, as well as sweeping, vacuuming, and other environmental services.



In October 2016, we opened a Tier 2 Oil Spill Response Base in Paraíso, near the port of Dos Bocas Mexico. This strategic base provides oil spill support to new offshore drilling operations in Mexico. We have a strong team of personnel on base lead by Oscar Velasquez, complemented by a broad array of response equipment and stockpiled dispersant. We have successfully executed contracts with the majority of independent oil & gas operators in the region and are extremely excited about our future in Mexico as many more operators are slated to come online in future years.

On a global front, in January, we rolled out our Global Response Services providing our vessel owner customers global emergency response services. The response was overwhelming positive, filling a much-needed void in global coverage in the event of a spill in international waters.

Inside this newsletter you'll be able to read some project spotlights and notable project wins across the various regions and continents we work in. In addition there is some Oil Spill Response History and a profile on one of our divisions and much more!

Enjoy the read and as ever, feel free to reach out to me at LouOBrien@nrcc.com.

Lou O'Brien
Senior V.P Sales & Marketing

NRC Welcomes New Additions To Our Team



Jason Pare, Sales Account Manager- Massachusettes



NRC welcomes Jason Pare to the New England Sales Team as Account Manager for Massachusetts. Jason is a knowledgeable sales specialist with over 8 years of experience in the Environmental Services Industry.

His areas of expertise include Hazardous Waste Management, RCRA and Environmental Compliance and EHS Management Systems. Jason is also a veteran of the United States Coast Guard.

Oscar Velasquez Steps Up To Be In Country Manager For NRC Mexico

With over 30 years of emergency response experience to oil and hazardous substance spills, Oscar Velasquez, NRC Mexico's in-country Operations Manager, is the 'right man for the right job.' Oscar and his team at NRC Mexico's Tier 2 Response Base in Paraíso can be proud of the excellent job they have done in establishing NRC's newest business venture in Mexico.

Since 2005, Oscar has worked for NRC (and its former parent company SEACOR) on the international front lines in Turkey as the Response Operations Superintendent for the BTC Project; in Angola, where he was our Oil Spill Training Manager; and in Venezuela where he was the Response Superintendent for a major oil spill in the Lake Maracaibo area. Prior to coming to NRC, Oscar was a lead response supervisor for the OLAMAC Unit at PDVSA in Venezuela where he supervised many major spill events in the Catatumbo and Tarra Rivers, Lake Maracaibo, and the Caribbean Sea.

Supporting Oscar at our response base in Paraíso is Alfredo Hernandez, who is our Response Supervisor and HSE Coordinator as well as our five staff Responders. Alfredo has a strong background supporting onshore and offshore logistical and Information Technology (IT) support services for companies such as PEMEX and Schlumberger in Mexico. Our Response team members, including A Zenen López Justo, Alberto Vásquez, Salatiel Lopez, Juan Carlos Alayon Madrigal, and Ulises Alvarado Pérez all have years of experience supporting the oil and gas fields in Mexico. "Our NRC Mexico staff has developed into a strong response team," explained Oscar. The team has been engaged in rigorous training on base and in several offshore training events. They have also been busy supporting both client and local SEMAR (Mexican Ministry of the Navy) training and tabletop exercise events. Congratulations to the Team for their impressive accomplishments.



NRC Mexico Response Team (from left to right): Oscar Velasquez, Alfredo Hernandez, Zenen López Justo, Alberto Vásquez, Salatiel Lopez, Juan Carlos Alayon Madrigal, and Ulises Alvarado Pérez.

In This Issue...

Read about everything that has been happening at NRC over the past few months including:

- Project Spotlights.....3
- Notable Contract Awards.....3
- New Services Lines.....5
- Oil Spill History.....10
- NRC Business Unit Profile.....11

Contact Us

Global Headquarters

3500 Sunrise Highway
 Suitw 200, Building 200
 Great River NY, 11739

Phone: 1-631-224-9141
 Email- iocdo@nrcc.com

24-Hour Emergency

Inside US: +1-800-899-4672
 Outside US: +1-631-24-9141

Corporate Name Changes

Effective as of the dates below, the legal corporate names of ENPRO Services, Inc. and OP-Tech Environmental Services, Inc. have been changed as follows:

On June 28th, 2017, ENPRO Services, Inc. became "NRC East Environmental Services, Inc."

On June 26th, 2017, OP-Tech Environmental Services, Inc. became "NRC NY Environmental Services, Inc."

On May 2nd, 2017, Sureclean Limited became "NRC Environmental Services (UK) Limited"

Project Spotlight

NRC International- Seawater Lift Caisson On Board Kizomba FPSO

Following the successful completion of yard trials earlier this year, NRC have now commenced the offshore phase of the Seawater Lift Caisson cleaning project on board the Kizomba FPSO located offshore in Angola.

A two-man NRC team mobilised to the FPSO to commence the work scope which involved the removal of marine growth and an epoxy paint coating from the externals of two 52" Caissons in preparation for the client to carry out inspection and repair works.



Notable Contract Award- HAZMAT Equipment

NRC was awarded a 3 year contract with a major Oil and Gas company in May 2017 for global 24/7 emergency response services in the event of a HAZMAT or HNS 'chemical' related marine incident. NRC will be providing expert personnel and specialist HAZMAT equipment packages which will be housed at our global response hubs in the USA, UK and the UAE.

Equipment is packaged 'air-freight ready' for rapid mobilization to an incident anywhere in the world. Services include: desktop advice, 3D spill modelling, participation in table-top response exercises, remote incident advice, full scale incident emergency response with equipment and personnel and subsequent incident clean-up.

NRC International- MV Cabrera Oil Spill

On the 24th of December 2016, the bulk carrier MV Cabrera was caught in heavy weather in the Kafirea Strait and ran aground on the north coast of Andros Island, Greece.

NRC supported OSRA Greece by providing a Shoreline Response Operations Manager for over 11 weeks on a back to back basis. Whilst onsite, NRC personnel (David Laurence, Spill Response Supervisor and Mathew Perkins, Operations Support Manager) liaised closely with the owner-appointed surveyors, ITOPE, local authorities and oil spill response and waste contractors to advise on the response activities. Joint shoreline surveys were conducted by boat and on foot to assess the extent of contamination and to select appropriate response techniques and end-point objectives for the clean-up operations.



Notable Contract Award- Lead Soil Contamination Remediation

NRC's project in Memphis TN is valued at approximately \$1,800,000 and is being performed for a major battery manufacturer. The work consists of soil and sediment removal from both upland and wetland areas adjacent to an active railroad track, demolition and crushing of onsite buildings and concrete structures and the installation of an engineered cap to house lead impacted soils.

The project will include several drainage improvements, a carbon-based groundwater treatment system as well as a 3 month long temporary storm water bypass system. The engineered cover system that will cap lead impacted soils, will consist of structural fill a geotextile liner system and top soil which will be installed with low ground pressure bulldozers.

NRC Turkey Conduct HNS, IMDG & OPRC Training

NRC Turkey had conducted various training sessions in June including HNS 1 Training and a drill exercises on behalf of the operators of the Turkish Petroleum Natural Gas Production Facility in Akcakoca. The training and drill were completed over the course of 2 days in compliance with the regulations and proved a success.

IMDG Code training had also taken place on behalf of the Socar-Star Refinery, the training was conducted over the course of 4 days with 15 attendees present. Training including General Awareness, Function Specific and Safety Training.



NRC Sponsor Allan Ross Memorial Day

NRC were delighted to take part for a 7th year running in the Allan Ross Memorial Day Golf Tournament. Comprising over 3 teams with a combination of employees, family members and friends. NRC took 5th place out of 14 teams competing. NRC teams included :

A brilliant day had by all, with over £3k raised for the Raigmore Hospital Endowment Fund and everyone already excited to take part again next year.



NRC Alaska Present Distillation Unit

On May 8th NRC Alaska presented to the APA Environmental Regulations Committee at a Workshop on the process of Glycol Management and Fractional Distillation.

Typical uses of Glycol Mixtures include Internal Combustion Engines (Ethylene Glycol (EG) and Water), HVAC / Heat Exchange (Propylene Glycol (PG)), and Airlines (PG mixtures).

Fractional Distillation takes advantage of a packing material in #2 column that provides surface area for enhanced separation and rectification of vapor mixture. It allows rising glycol vapor to undergo a series of evaporation and condensation steps that enrich glycol vapor and condense impurities.

- Generates both concentrated and blended 7 glycol
- Maintains high product purity (>98%)
- Meets ASTM-1177 specification for recycled glycol
- Limits the amount of water in final product
- Allows for heat recovery and reuse
- Lower column height w/o losing efficiency
- Effective on EG or PG
- Utilizes pretreat to minimize fouling
- Modular skid design to improve floor space



NRC Alaska's technology of manufacturing High-Quality Recycled Glycols allows us to produce glycols which meet ASTM standards and can be used in any industrial application.

- Recycled Antifreeze - We will be formulating several universal recycled products to meet ASTM and/or OEM manufacturer specifications for coolants. In addition, we will also custom blend recycled antifreeze to customer specifications.
- Recycled HVAC Fluids - We will formulate a universal recycled HVAC coolant to meet ASTM and/or OEM manufacturer specifications for heating, ventilation and air conditioning fluids. In addition, we will also custom blend recycled HVAC coolants to customer specifications.
- NRC Alaska will test the waste to determine whether it is hazardous and dispose of it accordingly.

NRC Launches Global Response Services To Shipping Clients



In January 2017, NRC introduced its Global Response Services (GRS) to its Tank and Non-Tank shipping clients. The response for this new program from our vessel shipping clients has been very favourable with over 1,100 vessel clients signing up for this new international coverage program. GRS extends both oil spill and hazardous material emergency response services to clients on a global basis.

For 25 years, NRC has been providing a broad range of environmental cleanup solutions for our clients. When the Oil Pollution Act of 1990 (OPA 90) was passed, NRC introduced cost effective oil spill response compliance to the U.S. regulatory compliance market. Over the years, we have greatly expanded our worldwide services. Through a strategic growth and operating bases that now extend into 14 countries, we have proudly expanded our oil spill and high hazard response capabilities to the worldwide shipping, oil, and gas industries.

The Global Response Services (GRS) program now covers approximately 8,200 Tank and Non-tank vessels with international emergency response coverage under contractual terms and conditions that conform to the vessel's International Group of P & I Clubs (IG) guidelines for their vessel response plans.

Conformance with the IG's coverage guidelines is essential to our ability to respond to any international oil spill incident. Therefore, we worked closely with the IG Group to produce terms that not only conform to their guidelines, but provides us with the terms and conditions to respond to incidents in international or foreign State waters.

NRC's GRS services are delivered through pre-positioned and strategically positioned shoreline and offshore response equipment, as well as aerial dispersants that are ready to be deployed from NRC's dedicated global Tier 3 response bases in the US, UK, and UAE. When an incident occurs, our response teams can be airborne within hours of notification of an incident. NRC's highly trained response personnel are ready to respond to any international oil spill incident. If needed and available, NRC will also support international response efforts from its regional Tier 2 bases located in 14 countries.



NRC Exhibits IOSC Los Angeles

This year, one of the key events for our OSR business - the International Oil Spill Conference (IOSC) - was held in Los Angeles from May 15th to the 18th. (<http://www.iosc2017.org/>).

NRC exhibited along with other service providers, equipment manufacturers and E&Ps. This event brought NRC's US and international team promoting a few key themes, including our GRS (Global Response Service), Industrial Services and Global HNS/HAZMAT response. We also used the opportunity to showcase our recent successes. The conference was a great venue to meet some of our existing and prospective clients such as ExxonMobil, Total, Shell, Chevron, Tesoro and others. A good venue to get some insights into the industry, the current challenges but also the upcoming developments. Drop us a message if you would like to know more about the services we have been actively promoting internationally.



NRC UAE Employee Earns Distinction

Mashood Kotta Thalayan, NRC UAE Purchasing and Logistics Coordinator, recently completed his Dangerous Goods course as part of the requirements for the Global Response Service (GRS). Congratulations to Mashood for passing the course with distinction! A great effort and an encouragement for the team taking the course.



NRC UAE Conducts ER Workshop For SCPX Project Staff

The expansion of the South Caucasus Pipeline is part of the Shah Deniz Full Field Development project. This expansion involves the laying of a new pipeline across Azerbaijan and the construction of two new compressor stations in Georgia. This will triple the gas volumes exported through the pipeline to over 20 billion cubic metres per year. Following award of the contract to develop the Emergency Response Plan and Incident Management Guidelines for SCPX Operations in Georgia, our Country Manager Ray Ramsay recently conducted ER plan familiarization training/workshop and table top exercises for SCPX Operations and is now finalizing the Plan and the IMGs.



Training Season Begins Early For NRC US

September through December is usually NRC Compliance's 'busy season' for drills, training, and tabletop exercises. It seems like every year customer's wait until the Fall to schedule their tabletop or equipment deployment drills and exercises. But this year, we have seen a steady round of exercises throughout the Spring and Summer.



Jody Anastasia, NRC Training Instructor, review's Incident Management System (ICS) principles to Buckeye Partners' Incident Management Team in advance of their Worst Case Discharge Tabletop Exercise in Richmond, Virginia on June 19, 2017.

NRC Receive Safety Award

During one of NRC's major oil and gas clients forum and annual awards ceremony NRC Georgia received a Safety Award in recognition of NRC transparent report, self-verification system, 100% nationalization, good responses provided by our teams during emergency call outs and delivery of OSR and Wildlife Response exercises.

NRC Launches UK Emergency Response Services

May has seen the launch of a new UK Emergency Response Service implemented by our UK team.

Our 24/7 Emergency Response Services will cover spills or environmental incidents of any material or waste, on land, rivers or ports & harbours, across the country.

From an initial call to our dedicated answering services, the NRC response team go through a well rehearsed procedure including assessment and initial advice to the client, mobilization to site and deployment of response personnel and equipment. Where further resources are needed, the site team can call upon the vast array and diversity of NRC equipment and personnel skills to escalate a response where necessary.

With pre-packaged specialized equipment available in Scotland, NRC is able to activate an immediate response and bring to bear the expertise in personnel and equipment from NRC Response Bases in the case of a major incident.



Notable Contract Award- Remediation Of Petroleum Impact Soils

NRC's project in Chappaqua, NY is valued at approximately \$1,300,000 and is being performed for a major developer in the northeast at a former fuel storage facility. The remediation is part of a development project that will build low income housing in an affluent area and has been under development for 3 years.

The project involves the excavation and off-site transportation and disposal of approximately 5,000 tons of petroleum impacted soils, management on-site treatment of approximately 150,000 gallons of impacted water, the importation and placement for approximately 6,000 tons of clean fill. The remedial excavation will be supported by the installation of a sheet pile barrier wall as well as a soldier pile and lagging system. After the remedial depths are achieved and the site is backfilled to subgrade, NRC will install a sub slab vapor depressurization system consisting of PVC wells and wellheads and a carbon-based blower system.

NRC Acquires Water Truck Services

NRC is pleased to announce the acquisition of Water Truck Services Inc based in Sherwood, Oregon joining NRC's US operations effective early 2017. WTS has been a valued contractor in the Pacific Northwest and for many years has been providing sludge and waste water transfer and disposal services. The acquisition of WTS will bring additional waste treatment and disposal capabilities to NRC's business in the Pacific Northwest.

Founded in 1987, WTS has been built into a trusted service provider to the Portland, OR area. The WTS facility has an enclosed transfer station with full containment capabilities with the capacity to fully process all waste product on site. In addition to waste transfer and disposal services, WTS offers sweeping, vacuuming, and other specialized environmental services.

CEO of NRC, Paul Taveira, commented on the acquisition "WTS signifies a strategic addition to NRC's environmental services offering and enhances the suite of environmental, industrial and marine service offerings both in the Northwest and our entire NRC network."

Upcoming Events

November:

NRC are exhibiting at the Alaska Miners Association Trade Show and Conference from November 5th to 11th at the annual Alaska Miners Association Trade Show and Conference at the Dena'ina Center in Anchorage, AK.

On November 15th & 16th NRC Alaska are exhibiting at The Alaska Resource Development Council Conference at the Dena'ina Center, Anchorage, Alaska, AK.

December:

NRC are exhibiting at the Clean Gulf Conference in Houston, TX, December 5-7, 2017 at the George R. Brown Convention Center

2018:

Alaska Support Industry Alliance: MEET ALASKA Conference & Trade Show: January 2018 Sheraton Hotel and Conference Center, Anchorage, AK.

The Alaska Forum on the Environment: February 12 – February 16, 2018: at the Dena'ina Center, Anchorage, AK.

CLEAN PACIFIC: Oregon Convention Center, Portland, OR. June 19-21, 2018.

NRC Mexico Hold First Shared Services Base Meeting

NRC Mexico had its first successful Shared Services meeting on June 7, 2017. This meeting was the first time Shared Services members had convened at our Paraíso, Mexico Tier 2 Oil Spill Response base to discuss current base operations along with good discussion from member's regarding our support to their drilling operations in the Bay of Campeche, Mexico. In attendance at our meeting was Victor Falcony and Jose Juan Correa of Hokchi Energy; John Poole and Emir Hernandez from Fieldwood Energy; and Armida Alfonzo, Rene Gutiérrez, Consiglio Marco Sebastian, and Moreno Ulisse of ENI Mexico.

Since first moving response equipment into Mexico in early October of 2016, NRC has moved quickly to establish itself as a Mexican corporation and a fully operational Tier 2 oil spill response base for the Campeche Bay area. This robust Tier 2 base is designed to support Mexico's growing oil and gas drilling operations as well as future deepwater drilling in the Saline and Perdido drilling basins. In 2014, Mexico passed its Energy Reform law which has opened onshore and offshore drilling operations to foreign oil and gas companies. NRC's Shared Service members are among the first foreign companies to begin drilling in the region, which is expected to have huge growth potential for these operators.



The bulk of NRC Mexico's Tier 2 equipment is located at its base and warehouse in Paraíso. NRC has also established two forward response positions in the Port of Dos Bocas and in the Port of Laguna Azul in Ciudad del Carmen. These forward positions maintain a strong complement of both offshore and nearshore response equipment that can be first strike deployment positions for any client emergency event in the region. In addition to our impressive response equipment capability, NRC has a range of significant call-out resources through a contract with Marinsa de Mexico SA, including additional trained response personnel and response vessels operating both in the Dos Bocas and Ciudad del Carmen areas.

In addition to our in-country response equipment and personnel, NRC's Shared Service members receive the added benefit of Tier 3 support services from NRC's Tier 3 resources located in the US Gulf of Mexico. Members also have access to NRC's specialized aircraft for aerial dispersant operations.



NRC Tier 2 Response Base, Paraíso, Mexico.

NRC UAE Response Team Take Part In Go Kart Team Building

On May 10th, the NRC Response Team in the UAE took part in a team building activity in the form of go kart racing, to thank the team for all the hard work they had done over the past 5 months. After finishing work for the day, the team met down at the race track in the evening and proved the exercise was a success having thoroughly enjoyed the evening. Operations Manager Steve Sleep won in 1st place, followed by OSR Technician Sree Padam coming in 2nd and Senior Technician Madhu Pillai coming in 3rd.



NRC Opens New Office In Burlington, Washington



February 2017: NRC has opened a new operating location in Burlington, WA. Recent years have seen a significant increase to traffic congestion in the greater Seattle area, making it one of the worst cities for traffic in the country. Heavy traffic can directly impact response/service times to incidents in the greater Seattle area, impeding our ability to provide our customers with the superior level of responsiveness and service that they depend on. By opening an office north of Seattle, we have reduced response times to emergency events and mobilization times for planned services. In addition, NRC is now able to expand our reach and offer our extensive line of environmental services to a variety of clients in the north Puget Sound region, such as Phillips 66, Shell, Alcoa, and BNSF. Currently we have a variety of equipment located in Burlington including emergency response vehicles, pressure washers, gear/flatbed trucks, marine response equipment/vessels, wildlife rehab trailer, and a wildland fire response RTV.



Operations Manager: Jeffrey Loa
 Operations Supervisor: Kyle Meyers
 106 Lila Lane
 Burlington, WA 98233
 Phone: 206-607-3000
 Fax: 206-607-3001

NRC Issue Health And Safety Awards

Every year NRC Georgia issue awards to the individuals who have made significant contributions to HSE. The staff active participation is the demonstration of advancement we achieve in our organization health and safety culture year to year. Zura Chkhaidze - PSG1 OSR team member and Gela Khutsurauli - Geo Fire Chief were recognized this year, along with Giorgi Isakadze - Borjomi OSR team member and Nukri Girgvliani - Tsalka OSR Supervisor. Special thanks to Grigol Benidze - HSEQ Manager for his continuous efforts, great work and achieving outstanding results.



NRC International Launch Training Department Team

2017 has seen the launch of the International training department.

A full range of training has just been delivered in Malta with our partner AOST. This training programme was run over 3 months and delivered a wide range of courses to Transport Malta. The training department continues to have success with the awarding of an MCA 4 course for Safe STS, this is new business from a new client which is a key area of growth for NRC.

Mark Kelly Vice President of Operations commented "All in all 2017 is a good start for our new training department and we expect it to grow and deliver more training across the globe as we progress through the year."



Oil Spill 50 Year Anniversary

“The Day The Sea Turned Black”



March 17th marks the 50th anniversary of the first major oil spill in British and European waters. The supertanker SS Torrey Canyon hit rocks off the coast of Cornwall, spilling more than 100,000 tonnes of crude oil into the English Channel. This tragedy not only severely damaged marine life but the livelihoods of the local people and to this day it remains the UK's worst environmental accident.

The Torrey Canyon had been en route from Kuwait to Milford Haven, in Pembrokeshire, on the morning of 18 March 1967 when its captain took a shortcut and hit Pollard's Rock - a reef between Land's End and the Isles of Scilly. Brittany, in northern France, bore the brunt of the thickest part of the slick, and it became known there as the marée noire, or “black tide”. Over two days, 62,000 lbs of explosives were dropped on the stricken craft and surrounding waters, along with 5,200 gallons of petrol, 11 high-powered rockets and napalm.



Since the Torrey Canyon oil spill and the vast media and news coverage this has been noted as a milestone in the environmental world, making people begin to become more involved in ethical conservation. Oil Spill Response has now become a priority and necessary measure for a wide range of organisations across the world.



NRC Business Unit Profile- NRC Environmental Services UK (Formerly Sureclean)



As part of NRC's newsletter we shall be looking at one of our divisions and outlining their facilities and capabilities.

Location:

NRC Environmental Services UK has two bases in Scotland- Oldmeldrum, Aberdeen and the other in Alness, Inverness.

Services Provided:

Our services include:

- Oil Spill Response
- HAZMAT Response
- Emergency Response Consultancy
- Emergency Response Training
- Water Jetting
- Waste Management
- Tank and Vessel Cleaning
- Tank Management and Safety Support
- Vacuum Transfer and Pumping Solutions
- Asbestos Survey and Removal
- Industrial Painting
- NORM Management

Facilities

- Oldmeldrum, Aberdeenshire hosts an impressive 4.9 acre office, warehouse and yard facility. This facility is also NRC International's equipment hub and North Sea Operations base with a dedicated training room and 3 additional rooms for classroom based training
- Alness headquarters cover over three sites and extends to around 20,000m² incorporating a waste transfer station; office space; blast bay and paint shop comprising a overhead crane; warehousing, maintenance workshop and lay-down area

Personnel Expertise:

From training to industrial services, both facilities home a variety of expert personnel specialised in a wide range of services including:

- Vice President, International- Mark Kelly
- HSEQ Manager- Laura Beales
- Project Manager- David Munro
- Operations Manager- Richard Walker
- Support Services Manager- Arthur Allan
- Business Development Manager- Mike Murray
- Operational Training Manager- Simon Crook

