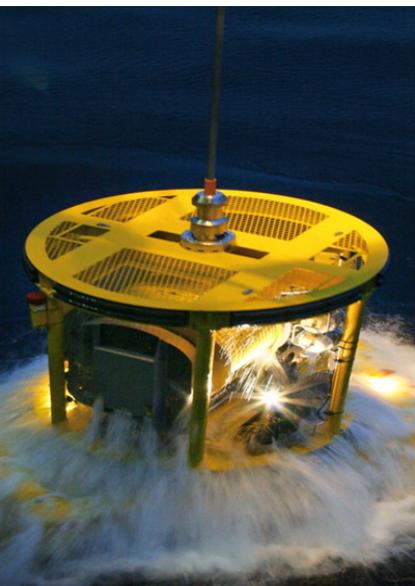


INNOVATION STORY : OILFIELD SERVICES TECHNOLOGY

NEMOH TO THE RESCUE



THE INNOVATION: Portable Deep Sea Water Processing

BACKGROUND: A major deep water operator in the Gulf of Mexico had to find a way of treating water inhibited with chemicals in a subsea environment. Typically this work requires a topside facility or the use of multiple boats. However due to project delays, no topside equipment was available. This, coupled with the depth of the connections, called for an unconventional solution to treating the chemically contaminated fluids and releasing them at a subsea level. At depths of up to 6,000 ft. subsea pipelines had been filled with water that contained materials which could be hazardous if released into the sea environment. The fluids needed to be treated in such a way that they would be safe to release into the surrounding marine environment. The operator had to ensure compliance with local legislation regarding the release of a chemically treated discharge. To meet compliance, the water had to pass an acute toxicology test and have no visible sheen.

CETCO Oilfield Services, a wholly owned subsidiary of AMCOL, rose to the challenge and created NEMOH™ (Nomadic Environmental Media Operated Host), a novel, patent pending contaminated water treatment vessel that could operate at subsea levels of up to 6,000 ft. It is flexible, portable, and can be used as a temporary installation in all types of marine settings including fresh, salt, or brackish water.

RESULT: An innovative technology for processing water at subsea level, CETCO Oilfield Services utilized NEMOH™ to treat fluids where there were no permanent facilities. By performing operations quicker than traditional topside methods, CETCO Oilfield Services was able to enhance production and ensure the operator complied with discharge legislation. Following the success of this project, the operator chose to employ NEMOH™ technology to treat the field's entire subsea system. The project also demonstrated how NEMOH™ can allow operators to use chemicals to protect valuable subsea equipment and ultimately enhance asset protection and management. Since then, CETCO Oilfield Services has been able to deploy its NEMOH™ technology to assist in various niche operating markets.

AMCOL's passion for innovation is driven by the ever changing needs of our industry and customers.



FOR MORE INNOVATION STORIES
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TO LEARN MORE ABOUT THE NEMOH™
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