OHMSETT

The National Oil Spill Response Research & Renewable Energy Test Facility

Testing • Training • Research

HUSEN Oil Shaver

November 26-30, 2012

HUSEN AS is a Norwegian company under contract with NOFO (Norwegian Clean Seas Association for Operating Companies). HUSEN has designed the OilShaver system which uses an advanced rigging and bridle design with a wide width sweeping recovery system. It is towable at full speed from one common towing point and can be rapidly deployed with minimal ancillary equipment.

The device was tested at Ohmsett in November 2010 where research and development quantitative evaluations were performed. The HUSEN high seas oil collection system has undergone design modifications to enhance recovery performance and will be evaluated in similar conditions as 2010 tests.

The objective of the project being conducted the week of November 26-30, 2012 is to quantify performance of the OilShaver skimmer system in terms of recovery efficiencies (RE), throughput efficiencies (TE), and oil recovery rates (OR) under conditions representative of those seen during actual spill response operations with this equipment. The skimmer will be tested under calm conditions, in regular and harbor-chop waves, using a light to medium oil.

Qingdao Sunic-Ocean Marine T&S Co., Ltd

December 3-7, 2012

Qingdao Sunic-Ocean Marine T&S Co., Ltd of China has designed an oil recovery system made up of an oil recovery unit, hydraulic power pack, and control device that can be installed inside of a ship or independently operated to recover oil. It is designed to work under various weather conditions, salt spray, and sea states. During the recovery process, the waste oil is guided into the collecting well of the skimmer, which consists of a belt that moves in the direction of the current. When the oil, particles, and adhered seawater get to the bottom of the belt, the oil and particles will float to the collecting well, due to different gravities, to realize the separation of the oil and water. The waste filter in the collecting well will filter the particles out. As the recovery goes on, the collecting well will fill with thick oil and then the defueling pump can transfer the separated oil to the storage compartment.

The performance tests will determine ORR, ORE and TE of the skimmer with different tow speeds, wave conditions, and oils.

Evaluation of the Lamor LNXG 1000 Skimming System

December 10-14 and 17-21, 2012

In April 2012, the Lamor Corporation tested three of their next generation brush skimmers at Ohmsett. The skimmers were based on a combination of technologies already in the Lamor and Slickbar product lines. One of the concept skimmers tested was the LNXG 1000, in which the test results indicated that further evaluation in the advancing mode is necessary to complete a comprehensive test of the system.

The objective of the December 10-21 project is to perform two weeks of full-scale skimmer testing at Ohmsett while collecting oil (Hydrocal 300) in calm and harbor chop wave conditions. The advancing skimmer evaluations will be designed by Lamor and Ohmsett engineers to obtain the desired performance data.

November 26, 2012

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Spotlight Photos

The OilShaver prototype was tested at Ohmsett in November 2010. Having undergone modifications, the OilShaver will be tested again at Ohmsett during the week of November 26-30, 2012.

The Lamor LNXG 1000 was tested at Ohmsett in April 2012. Further evaluation in the advancing mode will be conducted Ohmsett during the weeks of December 10 and 17, 2012.