

JOINT MARITIME TEST FACILITY



Acquisition
Directorate

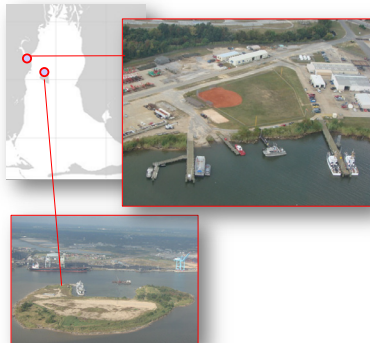


Aerial view of Little Sand Island during an in situ oil burn.



FACILITIES

- Strategically located in Mobile, Alabama, with facilities in Mobile Bay, allowing testing in a temperate maritime environment near the U.S.'s largest maritime oil production region
- Provides RDC and NRL principal investigators with:
 - full-scale, in situ mock-ups as the sole national testing facility for maritime fire protection and ISB research
 - relevant in situ maritime test environments for other RDC/NRL mission support equipment research.
- Provides relevant maritime test environments that meet (or have appropriate waivers for) all federal, state and local environmental standards
- Maintains a permanent liaison between the RDC and NRL in support of the RDC-NRL joint research agreement



For updates on many RDT&E programs, visit the R&D Center's website at <http://www.uscg.mil/acquisition/rdc/>

CAPABILITIES

The Joint Maritime Test Facility (JMTF) – an organizational element of the Coast Guard Research and Development Center (RDC) and the U.S. Navy's Naval Research Laboratory (NRL) – provides an instrumented, real-world maritime test environment for the evaluation and demonstration of spill response technologies that includes in situ burns (ISB) in a newly refurbished JMTF test tank.

The JMTF is the only test facility in the U.S. that holds an environmental permit for conducting full-scale, maritime petroleum fire tests, carried out on nearby Little Sand Island. With the refurbished and operational test tank, the JMTF is capable of conducting calm-water spill response tests to include large-scale oil fire scenarios. The JMTF is also in the process of upgrading the tank with a wave-maker to test spill response technologies under a broader range of environmental conditions and in accordance with ASTM standards.

Specifically to improve operational ISB performance, the RDC is partnering with the Bureau of Safety and Environmental Enforcement to study emerging technologies and methods for conducting ISBs.

The facilities provide relevant maritime test environments that have a wide range of applications and meet (or have appropriate waivers for) all federal, state and local environmental standards. In partnership with the NRL, the JMTF is the only facility in the world with a maritime vessel, the ex-USS Shadwell, for conducting shipboard security and safety testing.



FOCUS AREAS

- Research market trends in technology development to identify and test emerging improvements to current oil spill response capabilities
- Research ISB's applicability and limitations under varying environmental conditions
- Improve ISB efficiencies to lower emissions and burn residues
- Improve ISB ignition technologies to increase safety and reliability
- Improve herding agents to gather spilled oil for in situ burning in offshore environments
- Test nonlethal weapons munitions to build upon the capability to enforce maritime law

Mission execution begins *here*.