

**Solving Environmental Problems with Innovative Technology:
A Midwest Perspective
Addendum
September, 2009**

Near-commercial-ready Technologies

**Ballast Water Treatment Technology to Halt Spread of Aquatic Invasive Species
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Situation: Aquatic invasive species have wrought tens of billions of dollars in costs on the US economy and caused significant environmental damage. With the recent proposal of the US Coast Guard rulemaking containing a Phase II discharge standard 1000 times more stringent than the International Maritime Organization (IMO) standard, the federal government has created a market for vendors to develop technology to achieve such a standard. EPA is strongly supportive of the Coast Guard's efforts establishing this standard, and as such, we want to encourage development and verification of ballast water treatment technologies which meet or exceed these standards. Those systems which are proven effective at eliminating the discharge of living organisms while not discharging harmful quantities of residual chemicals or biocides, will play a key role in reducing the spread of invasive species. Once such systems are available, there will be a tremendous demand for these systems as almost all vessels with minimum thresholds of ballast water will be required to install such a system on board.

Need: Ballast water treatment systems that virtually eliminate living organisms from the discharge of ballast water.

EPA is revising protocols for the verification of ballast water treatment technology. Revised protocols are anticipated to be available in the beginning of 2010.