PROJECT OVERVIEW REPORT

1. Center Identifying Number
   204 RU6532

2. Project Title
   Modeling and Analysis of Vessel Traffic in Delaware River and Bay: Risk Assessment and Mitigation

3. Principal Investigator
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5. Project Description
   The SAFE Port Act of 2006 (PL 109-711) requires Area Maritime Security Plans to include a salvage response plan intended, inter alia, to ensure that commerce is quickly restored to US ports following a transportation security incident. Accordingly, this motivates the need to study and analyze the risks inherent in Delaware River and Bay vessel traffic, to be better able to develop a post incident recovery strategy. Accordingly, the CAIT-DIMACS Laboratory for Port Security (LPS) at Rutgers University proposes a collaborative project to study the following issues:
   1. Vessel traffic in the Delaware Channel, including current practices in handling dangerous cargo vessels and vessel delays at Delaware Bay.
   2. The economic impact of vessel activity along the Delaware Channel.
   3. Risk analysis and mitigation strategies for safe and efficient traffic management and port operations.
   4. Prioritization of Delaware Channel vessel traffic in the course of recovery from a channel closing high-consequence incident (collision, ramming, grounding, fire, or explosion, stemming from an accident or a terrorist activity). The prioritization methodology will be based on an economic analysis that will consider the strategic importance as well as key risk factors of each vessel cargo.

6. Dates and Budget
   Start date: 7/1/2007*
   End date: 12/31/2009
   Total Dollars: $486,040

7. Keywords
   Port security, incident management, maritime, ports, cargo vessels, risk analysis