



# Vessel Management System Replacement for the Chesapeake and Delaware Canal

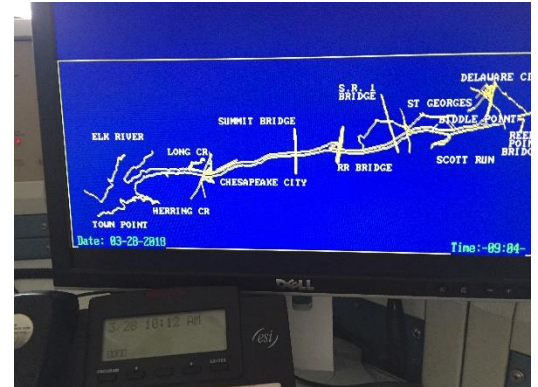
## ERDC Dredging Operations Technical Support Program (DOTS)

U.S. ARMY CORPS OF ENGINEERS

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### Response Summary:

This effort provided the Chesapeake and Delaware (C&D) Canal with recommendations to replace their existing Vessel Management System. The current system was developed in the early 1990s and is running on obsolete equipment and software. The system is used by the Canal to track vessels transiting the canal, identify potential traffic conflicts in violation of Canal operating requirements, and generate statistics of Canal usage. The response consisted of several site visits to the C&D Canal to observe operations, interview Canal dispatchers, and gather requirements. Visits were also made to the offices of other stakeholders, including the Maryland Pilots, Delaware Pilots, and the Maritime Exchange of the Delaware River.

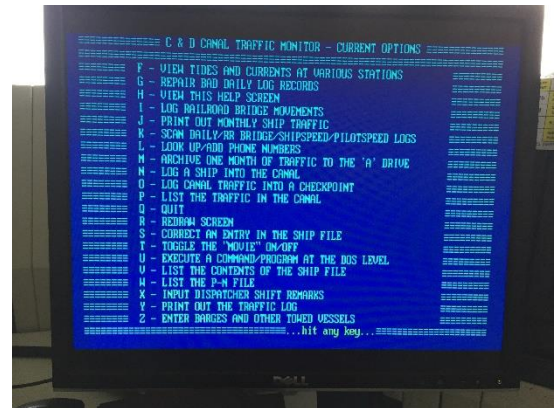


### Period of Performance:

13 February 2018 – 30 September 2018

### Benefits of the Response to the USACE Dredging/Navigation Program:

This response provided navigation systems expertise to the C&D Canal in assisting them in the replacement of their Vessel Management System. This expertise come from within USACE and evaluated the requirements in light of existing capabilities, providing an efficient use of resources. The products will help to update the system, integrate it with other navigation information systems, and improve navigation safety and efficiency for users of the Canal.



### Deliverables:

- Report with results of requirements gathering efforts and suggestion options for system(s) to meet identified requirements.
- Recommendations on updates to the Lock Operations Management Application (LOMA) for use in C&D Canal operations
- Assistance with acquisition, installation and use of Automatic Identification System (AIS) equipment to cover the C&D Canal operating area



Providing environmental and engineering technical support to the U.S. Army Corps of Engineers Operations and Maintenance navigation and dredging missions

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Project: DOTS 18-R19