

Project Name: Lighthouse Automation and Modernization Program (LAMP)

Author: Pete Marshall

Organizations/People Involved:

FPO-1: Hal Dorin

UCT One:

UCT Two: LT Bill Walker

USCG: Support from appropriate USCG District

Date: Planning - 1975, Installations 1976

Project Summary:

Chesapeake Division of NAVFAC (FPO-1) was tasked with providing support for the US Coast Guard Lighthouse Automation and Modernization Program (LAMP). The goal of LAMP was the total automation of all USCG lighthouses thus permitting the removal of USCG personnel from these outposts. Design for the automation involved powering of lighthouses from permanent shore facilities through to-be-installed power cables. For offshore lighthouses, the preferred design for the power cables to the lighthouses involved installation of underwater power cables. FPO-1 was tasked with project management for installation of the underwater power cables to five lighthouses.

OFP support for this effort involved the ocean work of:

- For FPO-1; Feasibility studies, Cost analysis, Site investigations, Cable route surveys, Cable procurement and overall Project Management
- For UCT; Assist with all early surveys and investigations, Provide cable-laying installation and assistance, Protect and stabilize all near-shore cable using split-pipe techniques with associated rock bolts for stabilization, Provide navigation assistance and Provide As-builts with photographs for final installation.
- For USCG; Typical support was the arrangement and transport of a YC-equivalent barge for transport of the power cable and Handling of all power cables and connections at the individual lighthouses.

Installations were completed at Wolf Trap and Smith Point Lighthouses in Chesapeake Bay, Virginia and Smith Island and Cape Flattery in Washington state.

Project Report Link: FPO-1 Project Execution Plan at DTIC: [Project Execution Plan for the Installation of Underwater Power Cables to Smith Island, Cape Flattery, and Destruction Island Lighthouses. \(dtic.mil\)](#) (ADA165750 dated September1, 1976)

FPO-1 Project Final Report FPO-1-77(6) at DTIC: [Installation of Underwater Power Cable to Smith Island and Cape Flattery Lighthouses. \(dtic.mil\)](#) (ADA165957 dated January 1977)