

Loran Enhanced Monitor System

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Vision Statement

- To reach the design and development stage to obtain a new receiver and monitoring system for modernized Loran compatibility

Today's Situation

- ❑ USCG current Loran monitor receiver is at the end of service life
- ❑ No longer be supported by manufacturer
- ❑ Cannot support modernized Loran (Loran Data Channel / Differential Loran, Time of Transmission)

which leads to:

Introduction to LEMS

- LEMS – Loran Enhanced Monitor System
 - What is the LEMS project?
 - What are LEMS Goals and Objectives?

What is the LEMS Project?

- Define functional requirements for a new operational receiver to support modernized Loran
- Define functional requirements for a new monitoring system to support modernized Loran

LEMS Goals and Objectives

- Determine the functional requirements for a new operational receiver and monitoring system for modernized Loran compatibility
- Development of a new operational receiver and monitoring system that are compatible with the modernized Loran architecture will be the end product of this project.

Initial Goals

- Document the baseline requirements for the PCMS as it exists now
- Determine requirements for how the monitoring system will change due to TOT/TOA and LDC/D-Loran

Requirements Tracking

- Telelogic DOORS 7.1

Questions to be answered

- 1) How will the new Loran technologies alter the current monitoring system?
 - SAM to TOT
 - LDC / Differential Loran
 - Differential Loran monitoring sites
- 2) How can we perform monitoring more efficiently?

Integrated Project Team (IPT)

- Loran Support Unit Internal Team as well as:
- Loran Panel Members; LORIPP, LORAPP, Loran experts within the Loran community
- Academia (Stanford, Ohio University, CGA, URI, etc.)