U.S. Nationwide Differential GPS (NDGPS)
Discussion Topics

- System Overview
- Review of 2016 System Changes
- Coverage Graphics
- Future of U.S. DGPS
- Questions??
System Overview

System Description
- 46 Nationwide Remote Broadcast Sites throughout the United States and territories (39 USCG and 7 USACE)
  - System in operation since 1996
  - Better than 10 meter accuracy
  - Sites equipped with out-of-tolerance user alerting
  - 10 second integrity alarm to the user
  - Satisfies Harbor/Harbor Approach requirements
  - 99.7% availability requirement
  - 99.9% availability requirement for Vessel Traffic Service (VTS)

Operations
- Redundant equipment at sites
- Redundant control stations at NAVCEN

Stakeholders
- U.S. Army Corps of Engineers (USACE)
- Department of Transportation (DOT)
- National Oceanic & Atmospheric Administration (NOAA):
  - Continuously Operating Reference Stations (CORS) network
Adjudicated comments from 2 Federal Register Notices

Transitioned from 83 to 46 sites on Aug 4, 2016
  – Eliminated inland coverage
  – Maintained majority of maritime coverage; most of the sites maintained by USCG & USACE

Shifted to single maritime coverage in most areas

Will continue evaluating future DGPS need as other GPS augmentation systems mature
Rationale of Reduction

- Division of sites (DOT, USCG, USACE)
- Statutory Service Requirement
- Accuracy of Un-augmented GPS
- Trends in DGPS use – How do you use it?
- Adjudication of FRN Comments
  - Geographic area (Maritime Pilots)
  - Precision Positioning (Dredging Ops)
  - Redundant coverage
Next Steps

• Assess CPNT application of DGPS infrastructure
• Decommission/divest 28 DOT sites
• Decommission/divest 9 maritime sites
• Evaluate future reductions and alternatives
Questions??

http://www.navcen.uscg.gov/