Developing and employing risk insight for balanced oversight

Panel Members:
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Bert Macesker, USCG R&D Center Technical Director
Who we are – R&D Center organization

- Provide innovative technologies, analysis, and decision support to reduce acquisition risk and enhance operations across all Coast Guard missions
- New London, CT
- 93 military & civilians
- RDT&E funded + fee-for-service
Can e-Nav technology help reduce O&M costs of fixed ATON without unacceptably increasing safety risks?

ATON = 51,000 visual aids

e-Navigation = AIS, ECDIS, VTS, etc.
What can be done to reduce the risk of a Ferry TSI?
What are the risks to vessels operating in the CSSC electric barrier and are mitigation measures adequate?

CSSC = Chicago Sanitary Ship Canal
What are the CG’s ability to manage Arctic risks?

- Bering Sea
  - SRR
  - WHEC, NSC, or WMEC
- St. Paul (Seasonal)
  - MRR
- Cold Bay (Seasonal)
  - MRR
- Bering Strait
  - 2 x MRR
- Beaufort Sea
  - 2 x MRR
- Chukchi Sea
  - 2 x MRR
  - PC 1, 3, or 6
- Bering Sea
  - SRR
  - WHEC, NSC, or OPC
- St. Paul (Seasonal)
  - MRR
- Cold Bay (Seasonal)
  - MRR

Helicopter Radius of Action (SRR: 1 hr at 130 kts, MRR: 2 hrs at 150 kts)
Cutter Radius of Action – 12 hrs
- Outer Circle: summer, 22 kts (264 nm)
- Middle Circle: shoulder, 12 kts (144 nm)
- Inner Circle: winter, 3 kts (36 nm)

Great Circle Route: Pac NW to Japan
U.S. EEZ

Acquisition Directorate
Research & Development Center
How can the CG ensure future compliance to ballast water discharge standards?

BWT = Ballast Water Treatment
Government Perspectives II Panel

Questions?