SAR Systems
Operational Analysis

SAR Controllers Workshop 2022
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What is an Operational Analysis (OA)?

• The OA is an annual check of a system’s performance and health status.
  – Required by DHS
  – Assesses system status and associated DOTmLPF R/G/S

• The OA’s provide necessary information to assess and improve the program.

• OA’s identify trends (both good and bad).

• OA’s support resource allocation decisions.

• We can’t fix the problems we don’t know.
Example of Trend Analysis

SARSAT - RCC Satisfaction Index

Year

Percentage (%)
74 76 78 80 82 84 86

Target
Actual
Linear (Actual)
2022 SAR Systems OA

• Assessed SARSAT, SAROPS, AMVER, SLDMBs, and GMDSS Inmarsat and Iridium services. Inputs:
  – 2021 SAR Controllers Workshop
  – 2021 SARSAT Survey
  – SAROPS IPR and Rigor Meetings
  – AMVER Rigor Meetings and pre-CCRI Review
  – Other Interviews/Meetings

• USCG JRCC/RSCs completed the SARSAT survey as a unit (only 06 of 11 submitted).
  – An unknown issue, remains unknown.
2022 SAR Systems OA Results

• SARSAT LEOSAR/GEOSAR stable; MEOSAR, Second-Generation Beacons and Distress Tracking ELTs being introduced and identified issues addressed.

• SAROPS transitioning to web-based client; SAROPS desktop entered limited sustainment.

• AMVER entering technology refresh cycle; operational and performance requirements were validated.
2022 SAR Systems OA Results

- SLDMB data shows >85% operation; review of data shows anomalies now under investigation; manufacturer pursuing tech updates (e.g. GPS, sensor, electronics).
- GMDSS Inmarsat – RescueNET/SafetyNET II applications replacing SafetyNET.
- GMDSS Iridium – in implementation phase for SafetyCAST application and backup terminals.
In Summary...

- DHS requires OA’s be conducted annually.
- SARSAT Survey is one of SAR Systems OA inputs.
- OA’s raise performance and other issues to senior leadership awareness.
- OA’s support resource allocation.
- Unknowns remain unknown
  - Without input from users, changes may not get triggered.
  - A squeaky wheel gets noticed and may prevent a broken axle.
Contact us!

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