



Report of Activities

MR. Edwin Thiedeman

13 May 2022





TOPICS



- **Global Maritime Distress & Safety System (GMDSS)**
- **Global Aeronautical Distress & Safety System (GADSS)**
- **Other Topics**





Global Maritime Distress & Safety System (GMDSS)





EPIRBs



- **MSC Resolution 471(101), Performance Standards For EPIRBs, enters into effect on 01 July 2022**
- **IEC 61097-2 update completed; published June 2021 (with corrigendum)**
- **MSC 104 approved the following documents for adoption:**
 - MSC.1/Circ.1039/Rev.1 – Guidelines for Shore-based Maintenance of Satellite EPIRBs
 - MSC.1/Circ.1040/Rev.2 – Guidelines on Annual Testing of 406 MHz Satellite EPIRBs





EPIRBs



- **MSC 104 approved amendments of the Voyage Data Recorder Standards to align with MSC.471(101) requirements**
 - Resolution MSC.493(104), Amendments to MSC.163(78), Performance standards for shipborne simplified voyage data recorders (S-VDRs)
 - Resolution MSC.494(104), Amendments to MSC.333(90), Adoption of revised performance standards for shipborne voyage data recorders (VDRs)
- **Update of RTCM 11000.5 Standard completed**
 - Aligns with both MSC.471 & IEC 61097-2 ED-4
 - RTCM submitted petition to FCC for update of 47 CFR 80 to add RTCM Standard 11000.5, and by reference thus MSC.471 and IEC 61097-2
 - Amendment in process to support RLS operation within US beacons





EPIRBs



- **USCG working with the FCC to enable use of RTCM Standard 11000.5 instead of the 47 CFR cited 11000.3; FCC recommends waiver requests, USCG supportive.**
- **Manufacturers FCC waiver requests to use 11000.5 should include:**
 - The manufacturer and the models needing a waiver.
 - A waiver of FCC rule sections 80.7(f)(2) and 80.1061 needed to allow important safety of life devices to keep up with international standards by meeting the RTCM standard 11000.5 instead of the outdated 11000.3 specified in the FCC rules.
 - IMO requires that EPIRBs installed on or after July 1, 2022 comply with the new standard.
 - The new standard allows increased reliability and battery life of these safety of life systems and meets signaling protocols with new satellite systems.
 - The request meets the FCC waiver standards in Sections 1.103 and 1.925 because the underlying purpose of the rule would not be served by requiring compliance with an outdated standard. Further the public interest and safety is served by allowing deployment of the improved EPIRBs while the FCC considers updating its rules.
 - The frequencies remain the same and there is no harm in granting the waiver.





EPIRBs



- **AIS Cancellation Protocol**

- Proposal to add “EPIRB – CANCEL” to ITU-R M.1371-5 in support of the Cospas-Sarsat second-generation beacon (SGB) 406 cancellation messages
- JWG-SAR (28) in September 2021 affirmed the benefit of AIS cancellation for EPIRBs and PLBs
- Proposal submitted to Joint IMO/ITU Experts Group (EG-17) in November 2021 for consideration at ITU-R Working Party 5B (WP 5B) for inclusion in revision of ITU-R M.1371-5
- ITU Working Party 5B, at its December 2021 session, initially addressed deactivation message for AIS SARTs, Class M MOB devices, and EPIRBs and prepared a liaison statement to the IMO (NCSR) with proposals
- This topic will be further discussed at NCSR 9 (documents NCSR 9/12/5 and 9/12/7) in June





GMDSS Developments



- **Iridium GMDSS Service being implemented.**

- USCG RCC Norfolk serves as Associated RCC for world-wide non-US coverage and US Atlantic SRR; RCC Alameda serves as Associated RCC for US Pacific SRR and as RCC Norfolk back-up
- Process & procedures in place for adding new associated RCCs
- Two RCCs (Norfolk, Alameda) associated at Stage 3
- Four RCCs associated at Stage 2
- Nine additional RCCs in processing to become Iridium Associated RCCs





Global Aeronautical Distress & Safety System (GADSS)





GADSS



- **Implementation required by 01 January 2023**
- **Location of an Aircraft in Distress Repository (LADR):**
 - LADR provides Secure Storage for Position/Location Data of Aircraft in Distress or Potentially in Distress
 - Not an Alerting Means
 - Supports timely access of Aircraft Event Data by stakeholders (Operator, ATSU, RCC & Others)
 - LADR operation awarded to EURO-CONTROL, with a regional LADR operated by BENIN
 - ICAO planning additional LADR Workshops to complete the interface & operational system deployment
 - US SARSAT Program continuing to participate in Workshops
 - USCG monitoring progress and advocating SAR interests





Other Topics





Other Items



- **Return Link Service (RLS) for Use in US Beacons**
 - Awaits update of RTCM EPIRB and PLB Standards
 - Amendment to RTCM Standard 11000.5 to support RLS
 - Updated RTCM Standard 11010.4 is in the approval process
- **HITS CWG 406 MHz Homing Signal Development**
 - No new developments





Upcoming IMO Events



- **Navigation, Communications and Search and Rescue Sub-Committee (NCSR 9) to meet 21-30 June 2022**
- **ICAO/IMO Joint Working Group On Search & Rescue to meet September 2022**
- **Joint IMO/ITU Experts Group to meet 5-9 December 2022**





Questions?

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