WORLD-WIDE NAVIGATIONAL WARNING SERVICE SUB-COMMITTEE 11th Meeting (WWNWS 11)
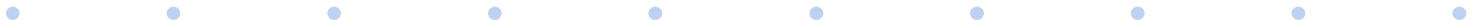## Halifax, 26 – 31 August 2019

Update on Iridium Implementation

Moin Ahmed
Director General
International Mobile Satellite Organization

Update on Iridium Implementation

- In June 2018, the MSC 99 adopted resolution MSC.451(99) on the Statement of Recognition of Maritime Satellite Services provided by Iridium Satellite LLC.

- This recognition is subject to IMSO monitoring the implementation of services and verifying that all elements had been brought into service satisfactorily.

Update on Iridium Implementation

- **CRITERIA AND REQUIREMENTS, Res A.1001(25), Functional requirements (capability for):**

- .1 ship-to-shore distress alerts/calls;

- .2 shore-to-ship distress relay alerts/calls;

- .3 ship-to-shore, shore-to-ship and ship-to-ship search and rescue co-ordinating communications;

- **.4 ship-to-shore transmissions of MSI;**

- **.5 shore-to-ship broadcasting of MSI;** and

- .6 ship-to-shore, shore-to-ship, and ship-to-ship general communications.

Update on Iridium Implementation

- **1. Confirmation of availability statistics and spare satellite capacity**

- 1.1 IMSO and Iridium have been discussing the process for informing the availability data. This process is part of the Public Service Agreement, which all recognized services are subjected to.
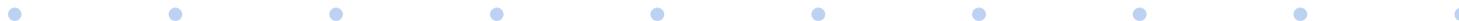
Update on Iridium Implementation

- **1. Confirmation of availability statistics and spare satellite capacity**

- 1.2 On 11 January this year, Iridium completed the deployment of the Iridium NEXT constellation, with 75 satellites in orbit. Sixty-six of them composes the main service, and the others are spares – to be used in case of one of the main satellites is non-responsive. Iridium also counts with warehouse spares.

Update on Iridium Implementation

- **1. Confirmation of availability statistics and spare satellite capacity**

- 1.3 IMSO and the company are discussing details on how the information should be provided, such as the period and format to be utilized.

Update on Iridium Implementation

- **2. Completion of the terminal type-approval procedures**

- 2.1 The International Electronic Commission (IEC), on the 08 July this year, published the standard IEC 61097-16:2019. This standard provides ***operational and performance requirements, methods of testing and required test results*** to be applied for ship earth stations operating in mobile-satellite systems recognized for use in the GMDSS.
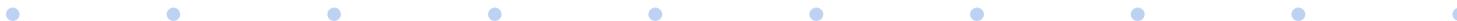
Update on Iridium Implementation

- **2. Completion of the terminal type-approval procedures**

- 2.2 Iridium is working with administrations for the type approval.

- 2.3 The first terminal is expected to be available in the market at the beginning of 2020.

- 2.4 Iridium will discuss this in detail during its presentation.

Update on Iridium Implementation

- **3. Development of design and installation guidelines consistent with the performance standard**

- 3.1 Iridium is working to deliver the documentation in a short time.

Update on Iridium Implementation

- **4. Launching the Iridium Safety Voice service**

- 4.1 The technical part is expected to be ready in the next months. Operational tests will be executed before launching.

- **5. Implementation of the Iridium enhanced group call service, verified by operational trials**

- 5.1 IMSO was made aware by the company that tests have been conducted and the feedback of these has been used to improve its system.

- **5.   Implementation of the Iridium enhanced group call service, verified by operational trials**

- 5.2 Since this is an outstanding issue to be considered by IMSO when issuing the Letter of Compliance; we request the stakeholders to bring any relevant information to us in the due course.

Update on Iridium Implementation

- **5. Implementation of the Iridium enhanced group call service, verified by operational trials**

- 5.3 MSC 101 approved the Iridium SafetyCast Interim Manual.

Update on Iridium Implementation

- **6. Completion of the hot back-up facility**

- 6.1 The final tests for the hot back-up facility are scheduled for the end of 2019.

Update on Iridium Implementation

- **7. Development of operational procedures related to the provision of the GMDSS services, and for contingency exercises**

- 7.1 IMSO expect to receive these documents in the short term, in order to provide the feedback to Iridium.
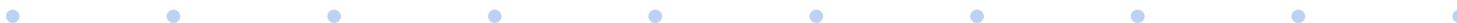
Update on Iridium Implementation

- **8. Bringing into force the Public Services Agreement with IMSO**

- 8.1 As already mentioned in our presentation, the Public Service Agreement with Iridium is already signed, but the Letter of Compliance is necessary to bring the PSA into force.

- 8.2 The letter will be issued after the outstanding issues are resolved.

Update on Iridium Implementation

- **8. Bringing into force the Public Services Agreement with IMSO**

- 8.3 IMSO and Iridium have been working to complete all tasks before the end of this year, to allow the service to start in January 2020.

- 8.4 Until now, IMSO has no evidence to believe that reaching this deadline would be unfeasible.

THANK YOU FOR YOUR ATTENTION

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