

UNITED STATES OF AMERICA

DRAFT PROPOSALS FOR THE WORK OF THE CONFERENCE

Agenda Item 8.2: *to recommend to the Council items for inclusion in the agenda for the next WRC, and to give its views on the preliminary agenda for the subsequent conference and on possible agenda items for future conferences, taking into account Resolution 806 (WRC 07).*

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Deleted: to examine the frequency allocation requirements with regard to operation of safety systems for ships and ports and associated regulatory provisions, in accordance with Resolution 357 (WRC-07)

Background Information: The ITU-R intends to address several essential maritime issues at WRC-12 under agenda item 1.10. The technical, operational, procedural work and studies, for certain maritime issues proved to be too complex to reach a satisfactory stage for any conclusive action by WRC-12.

These issues include:

1. the next generation of the Global Maritime Distress and Safety System (GMDSS);
2. implementation of E-Navigation (eNAV), which is the harmonized creation, collection, integration, exchange, and presentation of maritime information onboard and ashore by electronic means to enhance berth to berth navigation and related services, for safety and security at sea and protection of the marine environment;
3. mesh networking for improved safety communications in the maritime environment; and
4. container and cargo identification systems to support global commerce and enhanced port security

These remaining topics in the global maritime community require continued study within the ITU-R in an effort to reach a resolution at a future WRC. Modification at WRC-12 to Resolution 357 (WRC-07) is necessary to continue studies within the ITU-R and reach conclusion on the subjects noted above at a future WRC.

Proposal:

MOD USA/1.10/1

RESOLUTION 357 (WRC-12)

Consideration of regulatory provisions and spectrum allocations for use by enhanced maritime safety systems for ships and ports

The World Radiocommunication Conference (Geneva, [2012](#)),

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considering

a) that there is increasing need, on a global basis, to enhance ship and cargo identification, tracking, and surveillance as well as ship and port security and safety;

b) that the International Maritime Organization (IMO) adoption of the International Ship and Port Facility Security (ISPS) Code, specifically Safety of Life at Sea (SOLAS) Convention, Chapter XI-2, on special measures to enhance maritime security, requires long-range spectrum dependent systems;

c) that the introduction of the shipborne universal automatic identification system (AIS) supports maritime safety and offers potential enhancements to ship and port security and maritime safety;

d) that the IMO will propose modernization of Global Maritime Distress and Safety System (GMDSS);

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e) that new systems will harmonize creation, collection, integration, exchange and presentation of maritime information onboard and ashore by electronic means to enhance berth to berth navigation and related services, for safety and security at sea and protection of the marine environment;

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f) that use of existing maritime mobile allocations, where practicable, for ship and port security and enhanced maritime safety would be preferable, particularly where international interoperability is required;

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g) that additional studies within ITU-R on spectrum efficient radio technologies may be required to resolve these multifaceted spectrum requirements;

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noting

a) Resolution 342 (Rev.WRC-2000): “New technologies to provide improved efficiency in the use of the band 156-174 MHz by stations in the maritime mobile service”;

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b) IMO Maritime Safety Committee Circular 1056: Guidelines for Ships Operating in Arctic Ice-Covered Waters,

recognizing

a) that there is a global requirement to enhance maritime safety, ship and port security via spectrum dependent systems;

b) that due to the importance of these radio links in ensuring the safe and secure operation of international shipping and commerce, they must be resilient to interference;

c) that studies will be required to provide a basis for considering regulatory changes, including additional allocations and recommendations, designed to accommodate spectrum requirements of ship and port security, consistent with the protection of incumbent services;

d) that the ITU and international standards organizations have initiated related studies on spectrum efficient technology;

e) that IMO has established new NAVAREAs in the Arctic regions and there is a need for improved GMDSS communications in the Arctic,

resolves

1 that WRC-16 consider amendments to provisions of the Radio Regulations necessary to provide for the operation of ship and port security and maritime safety systems;

2 that WRC-16 consider additional allocations to the maritime mobile service above 526.5 kHz to support the requirements identified in *resolves 1*;

invites ITU-R

1 to conduct, as a matter of urgency, studies to determine the spectrum requirements and potential frequency bands suitable to support ship and port security and enhanced maritime safety systems;

2 that the studies referred to in *invites ITU-R 1* should include the applicability of spectrum efficient technologies, and sharing and compatibility studies with services already having allocations in potential spectrum for ship safety and port security systems,

invites

all members of the Radiocommunication Sector, the International Maritime Organization (IMO), International Organization for Standardization (ISO), International Electrotechnical Commission (IEC), and the International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA) to contribute to these studies,

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Deleted: b) . Resolution 351 (Rev.WRC-07): "Review of the frequency and channel arrangements in the HF bands allocated to the maritime mobile service contained in Appendix 17 with a view to improving efficiency through the use of new digital technology by the maritime mobile service".¶

Deleted: b) . that existing and future technologies for Ship Security and Alerting Systems (SSAS), introduced as a result of the ISPS Code referred to in *considering b)*, will require long-range communication links and networks between mobile ships and shore-based stations;

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instructs the Secretary-General

to bring this Resolution to the attention of IMO, ISO, IEC, IALA and other international and regional organizations concerned.

Reasons: It is necessary to modify Resolution **357 (WRC-07)** to continue the technical, operational and procedural work and studies to address several essential maritime issues under WRC-12 agenda item 1.10.
