

UNITED STATES OF AMERICA
PROPOSAL FOR THE WORK OF THE CONFERENCE

Agenda Item 10: *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)*

Background Information: The International Civil Aviation Organization (ICAO) held a Special Meeting on Global Flight Tracking of Aircraft in Montreal May 2014, and formed an ICAO ad hoc Working Group to develop a concept of operations to support future development of a Global Aeronautical Distress and Safety System (GADSS). GADSS will address issues such as:

- Aircraft tracking under normal and abnormal conditions
- Autonomous distress tracking
- Automatic deployable flight recorder
- Procedures and information management

As ICAO develops the GADSS concept it is anticipated that there may be a need to change the Radio Regulations in order to facilitate emerging aviation needs. It is therefore proposed that an agenda item be adopted for WRC-19 that is flexible enough to address any required changes to the Radio Regulations necessary to allow the implementation of the GADSS.

Proposal:

MOD USA/10/1

RESOLUTION 806 (WRC-15)

Agenda for the 2019 World Radiocommunication Conference

The World Radiocommunication Conference (Geneva, 2015),

ADD USA/10/2

X.X to consider regulatory actions, including spectrum allocations, to address evolving needs of the Global Aeronautical Distress and Safety System in accordance with Resolution [GADSS] (WRC-15).

Reasons: To support International Civil Aviation Organization activities to improve aircraft tracking, and to facilitate aircraft communications in the event of emergencies.

ADD USA/10/3

RESOLUTION [GADSS] (WRC-15)

Global Aeronautical Distress and Safety System Communications

The World Radiocommunication Conference (Geneva, 2015),

considering

- a) that the International Civil Aviation Organization (ICAO) is developing the elements for operations of a future Global Aeronautical Distress and Safety System (GADSS);
- b) that in the event of aircraft distress situations, additional communications may be required,

recognizing

- a) that the constituent elements of GADSS indicated in *considering a)* are not yet defined by ICAO, but are expected to be available in time for meaningful ITU-R studies to be completed for WRC-19;
- b) that WRC-15 adopted **No. 5.XXX** allocating the frequency band 1 087.7-1 092.3 MHz to the aeronautical mobile-satellite (R) service (Earth-to-space) on a primary basis limited to space station reception of ADS-B in accordance with recognised international aeronautical standards to extend the capability to locate aircraft particularly in oceanic and remote airspace;

resolves to invite WRC-19

taking into account the results of ITU-R studies, to consider any necessary regulatory actions, including spectrum allocations, to provide for the elements indicated in *considering a)*, while not unduly constraining incumbent systems,

resolves to invite the ITU-R

to conduct in time for WRC-19, necessary sharing and compatibility studies to ensure protection of existing services within the frequency bands that may be identified for the elements indicated in *considering a)*,

invites administrations

to participate actively in the studies and provide the technical and operational characteristics of the systems involved by submitting contributions to the ITU-R,

further invites

the International Civil Aviation Organization (ICAO), the International Air Transport Association, administrations and other organizations concerned to participate in the studies identified in *invites ITU-R* above,

instructs the Secretary General

to bring this resolution to the attention of the International Civil Aviation Organization and express the need for technical characteristics and spectrum requirements related to the implementation of GADSS by [the conclusion of 2016] to allow for ITU-R studies to be completed prior to WRC-19.

Reasons: A resolution will support the ITU-R studies needed under the relevant WRC-19 agenda item.

ATTACHMENT

**PROPOSAL FOR ADDITIONAL AGENDA ITEM STUDYING THE SPECTRUM
REQUIREMENTS FOR THE GLOBAL AERONAUTICAL DISTRESS AND SAFETY
SYSTEM**

Subject: Proposed Future WRC Agenda Item for WRC-19 to support ongoing International Civil Aviation Organization activities to facilitate aircraft communications in the event of emergencies.

Origin: United States of America

Proposal: to address evolving needs of the Global Aeronautical Distress and Safety System.

Background/reason:

The International Civil Aviation Organization (ICAO) has developed a concept of operations to support future development of a Global Aeronautical Distress and Safety System (GADSS). Given the complexity of the issues, GADSS requirements should be addressed at WRC-19.

Radiocommunication services concerned: Fixed-Satellite Service, Mobile-Satellite Service, Mobile Service

Indication of possible difficulties: None foreseen

Previous/ongoing studies on the issue: None to date

Studies to be carried out by: SG5 | *with the participation of:* SG4

ITU-R Study Groups concerned: SG4, SG5

ITU resource implications, including financial implications (refer to CV126): **Minimal**

Common regional proposal: Yes/No ***Multicountry proposal:*** Yes/No
Number of countries:

Remarks
