

UNITED STATES OF AMERICA

DRAFT PRELIMINARY VIEWS FOR WRC-19

Agenda Item 1.15: to consider identification of frequency bands for use by administrations for the land-mobile and fixed services applications operating in the frequency range 275-450 GHz, in accordance with Resolution **767** (WRC-15)

BACKGROUND: At present, there are no international allocations for radiocommunications services above 275 GHz in the Radio Regulations (RR's). However, footnote No. **5.565** does make identifications for radio astronomy, earth exploration-satellite (passive) and space research (passive) services. Recent advances in microwave technology make the use of this spectrum by active services for communications and related uses. Consistent with No. **5.565**, frequencies for fixed and mobile use could be utilized above 275 GHz, provided "all practicable steps" are taken to protect passive services.

Report ITU-R RA.2189 "Sharing between the radio astronomy service and active services in the frequency range 275-3 000 GHz" indicates that the radio astronomy service can share with terrestrial systems due to propagation conditions and power limitations of current active services technologies. The space research service (passive) and the Earth exploration-satellite service may also be able to share frequencies with the passive services, however studies are needed to demonstrate this.

U.S. VIEW: The United States is of the view that it may be possible to develop a similar footnote to that in No. 5.565 for land-mobile and fixed services, identifying bands for terrestrial active service use. To this end, the United States supports studies in the ITU-R on sharing and compatibility between passive and active services as well as spectrum needs for the land-mobile and fixed services for WRC-19 agenda item 1.15 under the terms of Resolution **767** (WRC-15).