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**DELIBERATE INTERFERENCE WITH THE UNITED STATES'  
GLOBAL POSITIONING SYSTEM (GPS) AND OTHER GLOBAL NAVIGATION  
SATELLITE SYSTEMS (GNSS)**

1 The Maritime Safety Committee, at its 104th session (4 to 8 October 2021), considered the deliberate interference with Global Navigation Satellite Systems (GNSS) and the United States' Global Positioning System (GPS), as reported in various locations throughout the world. The Committee recalled that satellite navigation system signals are vulnerable to deliberate interference intended to disable or deceive signal receivers and integrated navigational and communications equipment.

2 The Committee noted that these incidents of deliberate interference have been reported in a number of locations and evaluated by certain organizations having specialized equipment and expertise necessary to analyse the cause and impacts to maritime shipping.

3 The Committee also noted that the deliberate interference with satellite navigation system signals poses a substantial risk to the safety of navigation, the safety of life and property, and the protection of the marine environment.

4 The Committee reminded Member States of their responsibility to refrain from interfering with GPS and GNSS signals.

5 The Committee urged Member States to:

- .1 take actions necessary to minimize interference coming from their territory, as required under the International Telecommunication Union Radio Regulations;
- .2 consider issuing warning notices or advisories to mariners specifying the time periods and areas impacted by any known interferences to minimize negative effects upon maritime operations; and
- .3 consider enacting measures that prevent unauthorized transmissions on recognized satellite navigation system frequencies.

6 Member States and international organizations are invited to bring this circular to the attention of shipowners, ship operators, ships' masters, and all other parties concerned.