

**IALA COUNCIL**  
**64<sup>th</sup> session**



**13-16 June 2017**  
**Incheon**  
**Republic of Korea**

## **11 – TECHNICAL ACTIVITIES**

### ***11.4 – ENAV***

#### **11.4.8 – Draft Guideline G1126 Calculation of DGNSS Antenna Efficiency**

Note by the Secretariat

##### **1. BACKGROUND**

To establish a DGNSS station, a service provider will need to obtain a radio transmitting licence from their National Radio Regulatory Authority. Within the licensing process, the service provider will need to identify the transmission frequency and the required effective radiated power of the station in compliance with the ITU-R Radio Regulations.

##### **2. GUIDELINE ON CALCULATION OF DGNSS ANTENNA EFFICIENCY**

This is a new Guideline. It is intended to assist providers of DGNSS with establishing correct output signal levels from their LF/MF transmitter stations, and measuring the antenna efficiency.

The document is divided into a number of sections dealing with regulatory and technical background, measurement of signal strength and calculation of other system parameters. A worked example of a typical calculation to establish a DGNSS beacon transmitting a 300kHz signal is included.

The finalised document is submitted as input paper C64-11.4.8.1.

##### **3. THE COUNCIL IS REQUESTED TO**

**Approve** the draft Guideline G1126 Calculation of DGNSS Antenna Efficiency.