



ENG13 12-3-4
12 April 2021

Workshop on Standardization of the Enhanced Radar Positioning System

1 INTRODUCTION

Enhanced Radar Positioning System (ERPS) is a resilient PNT system to provide backup to GNSS. The system has been on trial since 2011 and five trials have been completed. ERPS works and has modest, but practical position accuracy (better than 26 metres and 87% availability to a moving vessel). ERPS has been the subject of two IALA Conference papers (2014, 2018). It is determined that further effort on ERPS should be on standardization. Standardization allows interoperability among radar and racon manufacturers. Standardization may also improve system accuracy and availability.

2 ERPS WORKSHOP PROPOSAL

The ENG Committee proposes a workshop [1], inviting the numerous international organizations that would be involved in standardization. The goals of the workshop are to enumerate the various standards needed and to create an initial road map and timeline for standardization.

Organizations to be invited, but not limited to, include :

- IMO
- IHO
- CIRM
- ITU
- IEC
- ETSI
- RTCM
- NMEA
- IALA Industrial members and other interested Committees.
- Other organizations if identified.

It is the intent to operate a virtual workshop of three days duration, alternating virtual meetings with breakout drafting group participation.

3 ACTION REQUESTED

Council is requested to approve the proposed ERPS Workshop.

4 REFERENCES

[1] Workshop Proposal “Enhanced Radar Positioning System (ERPS) Standardization”