



11 – TECHNICAL ACTIVITIES

11.3 – ENG

11.3.1 – ENG12 summary report

Note by the Secretariat

1. INTRODUCTION

The 12th meeting of the ENG Committee was held for first time in IALA virtually from 30 September to 16 October 2020. The session was attended by 128 registered participants from 31 countries. 35 participants attended for the first time. Working in four working groups, the Committee considered 58 input papers and produced 13 output documents.

The Committee continued the work for the 2018-2022 work period. Working in three working groups, the Committee considered 66 input papers, including presentations and produced 36 output and working documents. Please refer to the annex for the overall status.

2. IALA SUBMISSION TO OTHER ORGANISATIONS

The following liaison notes were prepared:

- C72-13.3.1(ENG12-13.3.11) Liaison Notes to RTCM on SC-104 & SC-134 activities.
- C72-13.1.1(ENG12-13.3.4) Liaison to CIRM on the Effect of Radars on Racons in busy harbours.
- C72-13.2.1(ENG12-13.3.7) Liaison note to ETSI TGMARINE on Radar Standards.
- C72-13.1.2(ENG12-13.3.9) Liaison note to CIRM on Enhanced radar positioning system.

3. OUTPUTS FOR APPROVAL

Two draft Recommendations have been finalised for the Council approval.

- C72-11.3.2(ENG12-13.3.1) Draft Recommendation on Terrestrial Radionavigation Services.
- C72-11.3.3(ENG12-13.3.10) Draft Recommendation on Provision of GNSS Augmentation Services for maritime applications.

One draft Guideline has been finalised for the Council approval.

- C72-11.3.4(ENG12-13.1.1) Revised Guideline 1135 on Effective Intensity Revision.

4. THE COUNCIL IS REQUESTED TO

NOTE the information provided in this document.



Annex

Overall status of the ENG Committee 2018-2022 Work Programme:

Task		WG	Start Session	Planned End Session	Revised End Session	Progress Indicator			Status Overview	
						Green	Yellow	Red		
Standard 1010 – AtoN planning and service requirements										
1.1.1	Revised guidance on Simulation Technology to revise G1097 in cooperation with ARM task 1.2.4	2	8	11						
1.2.1	Develop Guidance on checking that 3rd party AtoN providers are providing what they are obliged to provide– 3rd party AtoN provider quality control. (Joint ARM cooperation)	2	9	14						
Standard 1020 – AtoN Design and delivery										
2.1.1	Review and update V-119 on the Implementation of Vessel Traffic Services (R0119) (Output to be a revised Recommendation and associated Guideline),(includes task 1.1.3)	1	8	12					Both for approval to Council	
2.1.2	Develop Guideline on Port Traffic Signals	1	11	12						
2.1.3	Develop E-112 Leading Lights and 1023 Leading Lines into a Guideline	1	9	13						
2.1.4	Complete Guideline 1061 Illumination of structures	1	10	14						
2.1.5	Update Guideline 1048 LED technologies and their use in signal lights	1	10	11						
2.1.6	Review & update guideline 1043 on Light sources Note: The old task in the 2014-2018 work period was Merge and update Guideline 1043 On Light Sources and Guideline 1048 on LED Technologies and Guideline 1049 on the Use of Modern Light Sources in Traditional Lighthouses (Task 5.1.9). Should this old task replace 2.1.5 and 2.1.6 as Task 2.1.5?	1	10	11						
2.1.7	Develop a guideline for E-106 Retroreflective materials	1	8	9					Completed	
2.2.1	Develop E200-3 on light measurement into a Guideline	1	11	14					Likely to be next work plan	
2.2.2	Develop new recommendation on marine light Terms of Measurement	1	12	14					Possibly needs to be pushed into new work plan	
2.2.3	Develop E200-5 on Optical Performance into a Guideline	1	12	13						
2.2.4	Revise Guideline on effective intensity	1	9	11					Completed	
2.2.5	Develop Guidance on monitoring of function and degradation of AtoN light sources	1	9	11						
2.2.6	Develop Guidance on service factor	1								
2.2.7	Develop Guidance on Colour fading of AtoN (plastic and painted) – methods to measure and assess	1	10	12						



Task	WG	Start Session	Planned End Session	Revised End Session	Progress Indicator			Status Overview
					Green	Yellow	Red	
2.2.8	1	8	10					Completed
Develop guideline G1148 Marine Signal Lights - Calculation of Luminous Intensity and Range								
2.2.9	1	9	12					
Update Guideline 1041 on Sector Lights								
2.3.1	2/1	10	14					
Develop guidance to identify appropriate standards for AtoN equipment with extreme environmental conditions. Humidity, temperature, enclosure ratings, UV etc) Also including peak intensity specification for LED AtoN, batteries, optic service factor, thermal cap, etc.								
2.3.2	2	8	12					Completed
Complete guidance on Maintenance of AtoN structures								
2.3.3	2	8	12	14				
Develop Guideline on Tidal flow data capture and display								
2.3.4	2	8	10					Completed
New Recommendation on the Responsible Design & Maintenance of AtoN (updated to include safety, sustainable design, and relevant building codes and standards)								
2.3.5	2	8	12	14				
Joint workshop with all 4 technical committees on Cyber Security in AtoN operations								
2.4.1	2	10	13					
Develop Guidance on what constitutes a good marine AtoN solar panel								
2.4.2	1	11	13	14				
Deliver a Workshop - IALA AtoN Engineering								
2.4.3	2	8	14					
Monitor Battery development for use in AtoN								
2.5.1	2	8	13					
Develop guidance quantifying characteristics to meet nautical and operational requirements and ways to verify them								
2.5.2	2	8	13					
Develop new guideline on radar reflector (reflection) properties								
2.5.3	2	8	13					
Creating an overview guidance on floating AtoN								
2.6.1	2	10	14					
Develop Guidance on modern equipment in traditional lighthouses								
2.6.2	2	8	14					
Monitor Climate Change to inform IALA of impact and potential adaptation requirements for AtoN providers								
2.6.3	4	8	14					
1.1.1. IALA Heritage website: - Establish a World Heritage Lighthouse Cyber Centre, accessible via the IALA website. - Establish a database on World Heritage Lighthouses.								
2.6.4	4	8	14					
Establish a concept for nominating one lighthouse as World Heritage Lighthouse of the year for each 'World AtoN Day'.								



Task		WG	Start Session	Planned End Session	Revised End Session	Progress Indicator			Status Overview
						Green	Yellow	Red	
4.1.1	Development and review of WWA courses	1,2,3	8	14					
4.2.1	Navguide updates and review	VC	9	14					
Standard 1060 – Digital communication technologies									
5.1.1	Review telemetry Guideline 1008	2	10	14					
5.1.2	Review of engineering support for e-navigation services, (including hot/cold climates & radio propagation). TO BE CONFIRMED	3	8	14					

Legend:

Green – progress as planned

Yellow – task needs more time, target time prolonged

Red – task needs more time, target time prolonged

Grey – task completed / deleted

Blank – task not started