



IALA COUNCIL 73rd session



8-10 June 2021
Video conference

10 – TECHNICAL ACTIVITIES

10.3 – ENG

10.3.1 – ENG13 summary report

Note by the Secretariat

1. INTRODUCTION

The 13th meeting of the ENG Committee was held for first time in IALA virtually from 22 March to 19 April 2021. The session was attended by 129 registered participants from 30 countries. 30 participants attended for the first time. Working in four working groups, the Committee considered 73 input papers and produced 21 output documents.

The Committee revised the work programme based on the decision of the Council and worked on the extended work period 2018-2023. Please refer to the annex for the overall status.

2. IALA SUBMISSION TO OTHER ORGANISATIONS

The following liaison notes were prepared for the Council approval:

- C73-12.2.1 (ENG13-12.3.2) Liaison to CIRM on Enhanced Radar Positioning System
- C73-12.3.1 (ENG13-12.3.3) Liaison to ETSI on Radar Standards
- C73-12.4.1 (ENG13-12.3.6) Liaison to RTCM on responses to SC104

3. OUTPUTS FOR APPROVAL

Two draft Recommendations have been finalised for the Council approval.

- C73-10.3.2 (ENG13-12.3.1) New Recommendation on Provision of GNSS Augmentation Services for maritime applications Ed 1.0.
- C73-10.3.3 (ENG13-12.1.2) Revised Recommendation R0110 Rhythmic Characters of Lights on Aids to Navigation, Ed.5.0.

One draft Guideline has been finalised for the Council approval.

- C73-10.3.4 (ENG13-12.1.1) G1134 Surface Colours Used as Visual Signals on AtoN, Ed 2.0.

One workshop proposal has been finalised for the Council approval.

- C73-10.3.5 (ENG13-12.3.4) Input to Council on ERPS Standardisation Workshop.
- C73-10.3.5.1 (ENG13-12.3.5) Workshop proposal on ERPS Standardisation.

IALA Heritage Lighthouse of the year 2021 proposal has been finalised for the Council determination.

- C73-10.3.6 (ENG13-12.4.2) Proposed IALA Heritage Lighthouse of the Year 2021.

4. THE COUNCIL IS REQUESTED TO

NOTE the information provided in this document.


Annex Overall status of the ENG Committee 2018-2023 Work Programme after ENG13:

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	14						
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	14						
2.1.3	Develop E-112 Leading Lights and 1023 Leading Lines into a Guideline	1	9	14						
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	14						
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	14						
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	14						
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	14						
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	14						



Task	WG	Start Session	Planned End Session	Revised End Session	Progress Indicator			Status Overview
					Green	Yellow	Red	
2.2.8	1	8	10					Completed
2.2.9	1	9	14					
2.3.1	2/1	10	14					
2.3.2	2	8	12					Completed
2.3.3	2	8	14	15				
2.3.4	2	8	10					Completed
2.3.5	2	8	12	14				
2.4.1	2	10	14					
2.4.2	1	11	13	14				
2.4.3	2	8	14					
2.5.1	2	8	13	14				
2.5.2	2	8	13	14				
2.5.3	2	8	13	14				
2.6.1	2	10	14					
2.6.2	2	8	14					
2.6.3	4	8	14					
2.6.4	4	8	14					



Task	WG	Start Session	Planned End Session	Revised End Session	Progress Indicator			Status Overview
					Green	Yellow	Red	
2.6.5	Deliver Heritage Workshop	4	8	11	14			
2.7.1	Revise Recommendation R1004 to reference the UN Sustainable Development Goals	2	8	10	14			Completed
Standard 1030 – Radionavigation services								
3.1.1	Resilient PNT (applicable to all technical domains) – (identification, potential impact and mitigations)	3	8	11	14			
3.2.1	Terrestrial radionavigation systems	3	10	12				Completed
3.2.2	R-Mode (MF)	3	10	14				
3.2.3	R-Mode (AIS/VDES)	3	10	14				Task closed – VDES GL moved to ENAV
3.2.4	Workshop on R-Mode in 2019	3	9	10				Completed
3.2.5	Develop and maintain relevant Product Specifications eg. S-245 eLoran ASF data, S-246 eLoran transmitting station alamanc, S-247 Differential Loran reference station etc.	3	10	14				
3.2.6	Guidance on timing and synchronisation	3	8	12	14			
3.2.7	eRacon (standard approach); Review recommendations ENAV146 & R-101 & Guideline 1010	3	11	13	14			Run over into the new work period
3.3.1	Consideration of how and when to use SBAS in maritime.	3	9	13	14			
3.4.1	Consideration of how and when to use SBAS in maritime.	3	9	12				
3.4.2	Review existing DGNS infrastructure and provide guidance for current system	3	10	12	14			
3.4.3	New Recommendation on augmentation for maritime use	3	8	10	13			
3.4.4	Provide guidance, strategy and advice on potential new uses of marine beacon DGNS infrastructure	3	9	11				Item merged with 3.4.2
3.4.5	High accuracy systems	3	10	14				Run over into the new work period
3.5.1	Review and update current documentation under the preview of PNT WG	3	8	14				
3.5.2	Monitor developments in GNSS, DGNS, radar, resilient PNT, e-Pelorus, terrestrial systems, R-Mode, inertial and any other relevant areas etc.	3	8	14				
3.6.1	Update to ITU M.823, potential replacement for A.915, Liaison with IMO, ITU, RTCM, etc on related topics and project areas.	3	8	14				
3.7.1	Input to MSP, Integrity considerations for resilient PNT, cybersecurity impact for PNT data, DATUM considerations	3	10	14				
Standard 1050 Training and Certification								



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 – very little progress on the task, target time prolonged

Grey – task completed / deleted

Blank – task not started