

ENG Committee – Work Plan 2014-2018														
Strategy Technical Domain	Work package	Expected Output	Strategy	WG	Session							Status		
					1	2	3	4	5	6	7			
1. TD#1 – Light and vision physics														
1.1. Visual perception	1.1.1. Develop guidance on Marine Signalling	New and updated Guidance documentation	P7	1		x	x	x	x					
	1.1.2. Develop guidance on the selection of rhythmic characters Including 1069 Synchronisation	New Guidance document	P7	1		x	x	x	x					
	1.1.3. Update / Replace 1038 On Ambient Lights Levels	New Guidance document	P7	1		x	x	x	x					
1.2. Conspicuity and the effectiveness of visual signalling	1.2.1. Refer work package 5.1.2-5.1.13	Updated Guidance documentation	P7	1										
1.3. Background lighting effects and mitigation	1.3.1. Refer work package 5.1.2-5.1.13	Updated Guidance documentation	P7	1										
1.4. Colours in visual signalling	1.4.1. Refer work package 5.1.2-5.1.13	Updated Guidance documentation	P7	1										
1.5. Range and performance of visual AtoN	1.5.1. Refer work package 5.1.2-5.1.13	U[dated Guidance documentation	P7	1										
	1.5.2. Workshop on Lights and Batteries – IALABATT/IALALITE	IALA Workshop	P5,P14	2	x	x	x	x	x	x				
2. TD#2 – AtoN design and maintenance														
2.1. Buoy and beacon engineering and performance, including power systems, harmonising and	2.1.1. Develop further guidance on plastic buoys, systems & sensors	New and updated Guidance documentation	P8	2	x	x	x	x	x	x				

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interfacing of equipment and systems, and remote monitoring and control	2.1.2. Engineering guidance on the implementation of e-Navigation systems	New Guidance documentation	P3	2		x	x	x	x	x	x	
2.2. Maintenance strategy and techniques	2.2.1. Develop guidance on sustainable AtoN design & maintenance.	Updated Guidance documentation	P8	2		x	x	x	x			
	2.2.2. Develop guidance on the commissioning of AtoN equipment and systems and engineering audits.	New Guidance documentation	P8	2		x	x	x	x			
2.3. Extreme environment AtoN engineering	2.3.1. Develop guidance on AtoN design & maintenance for hot climates.	New Guidance documentation	P8	2	x	x	x	x	x	x		
	2.3.2. Workshop on AtoN delivery and maintenance in extreme heat	IALA Workshop	P5,P14	2		x	x	x	x	x		
2.4. Safety of personnel	2.4.1. Review and update guidance on safety of personnel	Updated Guidance documentation	P8	2		x	x	x				
2.5. Data populating for S-100	2.5.1. Populate the S100 registry for relevant AtoN classes	Revised and updated S-100 registry data as requested.	G1, S3 P3	1			x	x	x	x		
3. TD#3 – Global capacity building and training												
3.1. Standards for training and certification of AtoN personnel	3.1.1. Support the WWA in updating Recommendations and Guidelines on standards for training and certification of AtoN personnel	Updated WWA Training standards	G2, S2 P11	2	x	x	x	x	x	x	x	
3.2. Support for the WWA, including developing and coordinating	3.2.1. Support the WWA in updating model courses on standards for training and	Updated WWA model courses	G2, S2 P11	2	x	x	x	x	x	x	x	

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model courses for AtoN and e- Navigation	certification of AtoN personnel as training courses are undertaken.											
4. TD#4 – Civil engineering and environment												
4.1. Maintenance of AtoN structures	4.1.1. Develop guidance on the use of heritage lighthouses for modern AtoN equipment & systems.	New Guidance document	P8	2		x	x	x	x			
	4.1.2. Develop guidance on AtoN structure protection systems & repair techniques	Updated Guidance documentation	P8	2		x	x	x	x	x		
4.2. Protection of the marine environment	4.2.1. Refer work package 2.2.1	Updated Guidance documentation	P8	2								
4.3. Supervision of the Heritage Forum	4.3.1. Supervise work of the heritage forum	Successful forum			x	x	x	x	x	x	x	
5. Across all domains												
5.1. Transform the IALA product line	5.1.1. Navguide updates	Update Navguide	G2, S1 P1, P8	1/2			x	x	x	x		
	5.1.2. Review of IALA documents (ref ENG1 input paper on document ownership)	Updated Guidance documentation	G2, S1 P1, P8	1/2	x	x	x	x	x	x	x	
	5.1.3. Review and Update E200 On Marine Signal Lights	Updated Guidance documentation	P7	1			x	x	x	x		
	5.1.4. Update E-106 for the use of retro- reflecting material on aids to navigation marks within the IALA Maritime Buoyage System	Updated Guidance documentation	P7	1				x	x			

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	5.1.5. Review and Update E108 Ed 2 For the Surface Colours used as visual signals on aids to navigation	Updated Guidance documentation	P7	1						x		
	5.1.6. Review of IALA Recommendation E-110 for the Rhythmic Characters of Lights on Aids to Navigation (2012)	Updated Guidance documentation	P1	1						x	x	
	5.1.7. Update Recommendation E-111 For port traffic signals	Updated Guidance documentation	P7	1				x	x			
	5.1.8. Update E-112 For Leading Lights and 1023 for the design of leading lights	Updated Guidance documentation	P7	1				x	x	x		
	5.1.9. Merge and update 1043 On Light Sources and 1048 On LED Technologies and 1049 On The Use of Modern Light Sources in Traditional Lighthouses	Updated Guidance documentation	P7	1		x	x	x				
	5.1.10. Update 1041 On Sector Lights	Updated Guidance documentation	P7	1	x	x	x					
	5.1.11. Update 1061 Illumination of Structures	Updated Guidance documentation	P7	1	x	x						
	5.1.12. Update 1065 On Aids to Navigation Signal Light Beam Vertical Divergence	Updated Guidance documentation	P7	1						x		
	5.1.13. Review and Update of Guideline 1073 on Conspicuity of AtoN at Night	Updated Guidance documentation	P1	1					x	x	x	

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5.2. Deliver a limited suite of high level standards	5.2.1. Identify current documents as potential Standards, Recommendations, Guidelines & Manuals.	Identify potential standards for development	G1, S1 P2	1/2				x	x	x	x	
5.3. Knowledge/Information Sharing	5.3.1. Presentation to ENG committee on new developments in AtoN & related topics.	Rapporteur reports Input papers Presentations	P14	1/2	x	x	x	x	x	x	x	
	5.3.2. Develop the IALA Wiki	Active Wiki for document development and information sharing	P14	2	x	x	x	x	x	x	x	
	5.3.3. Develop the IALA Dictionary	IALA Dictionary maintained and updated	P14	2			x	x	x	x	x	

IALA Strategy 2014-2018

G1 - Ensure that aids to navigation systems and related services, including e-Navigation, Vessel Traffic Services, and emerging technologies, are harmonised through international cooperation and the provision of standards	G2 - All coastal states have contributed to an efficient global network of aids to navigation and services for the safety of navigation, through capacity building and the sharing of expertise
G1 S1 - Develop standards suitable for direct citation by States in areas deemed important by the General Assembly, and continue to improve strong governance, including document policy and procedure for standards	G2 S1 - Position IALA as the source of standards, knowledge, and expertise that will enable States to undertake and share the technical development of aids to navigation, in accordance with UNCLOS, SOLAS, and other obligations.
G1 S2 - Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, legislative frameworks and public expectations.	G2 S2 - Continue to develop capacity building activities to improve the global operations and management of aids to navigation systems and related services including VTS.
G1 S3 - Harmonise the information structure, Maritime Service Portfolios, and communications for e-Navigation by creating standards, and by cooperation with other IGOs, to achieve worldwide interoperability of shore and ship systems, including IMO sustainability goals for a maritime transport system.	G2 S3 - Coordinate the further development of VTS, e-Navigation, and short range aids to navigation, taking into account new technologies and sustainability.
G1 S4 - Work towards the transformation of IALA into an IGO, to enable the organisation to better fulfill its objectives, subject to General Assembly decision.	G2 S4 - Create standards for the design and analysis of aids to navigation systems in areas where increasing environmental and economic developments are affecting navigable waters.
G1 S5 - Ensure that the resources and capabilities of the Secretariat are sufficient to enable IALA and its committees and organs to reach its goals.	

IALA Strategic plan priorities 2014-2018

P1 - Transform the IALA product line by redefining and restructuring existing documentation to meet the future needs of the organisation, including document content, the approval process, and accessibility.	P8 - Provide guidance on management, engineering, and sustainability in aids to navigation, particularly concerning modern materials and light sources
P2 - Deliver a limited suite of high level standards suitable for direct citation by States and by other international organisations.	P9 - Promote the demonstration of e-Navigation services, through the provision of test beds, and the harmonisation of results.
P3 - Develop guidance on positioning, communications, Maritime Service Portfolios, and data modelling for e-Navigation	P10 - Develop guidance on information management, portrayal, and new technologies for VTS.
P4 - Develop guidance for the delivery of VTS, including communications, human factors, qualifications, and training.	P11 - Develop funding sources, programs and delivery options for The World Wide Academy.
P5 - Develop guidance on aids to navigation in navigable waters affected by operational limitations	P12 - As part of the WWA Master Plan, prioritise and conduct needs-assessment missions and related capacity-building activities, and further the use of Model Courses by national authorities.
P6 - Develop a forward plan for future delivery of aids to navigation systems and related services including VTS, taking account of developments in technology and changing needs.	P13 - Define common metrics and evaluation techniques, including risk analysis methodologies, for use in determining aids to navigation solutions.
P7 - Continue to improve guidance on light and vision aspects of marine signaling, consolidating documentation.	P14 - Promote technology transfer and knowledge sharing concerning aids to navigation.