| **ENG Committee – Task Plan 2023-2027** | | | | | | | | | | | |
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| **Strategy Technical Domain** | **Task** | **Expected Output**  **Key: + planned work, x planned but no work carried out, > task extended, \* task completed)** | **WG** | **ENG Session** | | | | | | | **Status** |
| **17** | **18** | **19** | **20** | **21** | **22** | **23** |
| 1. **Standard 1010 – AtoN planning and service requirements** | | | | | | | | | | | |
|  | Compile new Guideline on AtoN Tender requirements and specification – Led by ARM with ENG support. | New Guideline on Tender requirements. | 2 |  |  |  |  |  |  |  |  |
| 1. **Standard 1020 – AtoN Design and delivery** | | | | | | | | | | | |
| * 1. Visual Signalling | Review & update guideline 1043 on Light sources and amalgamate with Guideline on modern equipment in traditional lighthouses | New amalgamated Guideline | 1 |  |  |  |  |  |  |  |  |
| Update Guideline 1048 LED Technologies and their use in signal lights | Revise Guideline | 1 |  |  |  |  |  |  |  |  |
| Develop guideline on Port Traffic Signals | New guideline on Port Traffic Signals | 1 |  |  |  |  |  |  |  |  |
| Develop E-112 Leading Lights and 1023 Leading Lines into a guideline | New guideline | 1 |  |  |  |  |  |  |  |  |
| Complete Guideline 1061 (2008) on Illumination of Structures | Revise guideline | 1 |  |  |  |  |  |  |  |  |
| * 1. Range and performance | Develop E200-3 on Light measurement into a guideline | New guideline on Light measurement | 1 |  |  |  |  |  |  |  | If task not completed before the end of the current extended period 2018-2023 |
| Develop Guidance on monitoring of function and degradation of AtoN light sources | Add to G1077 | 1 |  |  |  |  |  |  |  |  |
| Update Guideline 1041 on Sector Lights to define ‘Angle of Uncertainty’ | Revise Guideline | 1 |  |  |  |  |  |  |  |  |
| * 1. Design, Implementation & Maintenance | Update G1035 Dec 2004 Availability and reliability of AtoN – theory and examples 2.0 Provides a method of calculating availability and reliability calculation with a view to enabling members to provide a cost-effective AtoN service. | Revise Guideline | 2 |  |  |  |  |  |  |  |  |
| Update G1037 Dec 2009 Data collection for AtoN performance calculation 2.0 Provides details of methods that can be used to collect information on the availability and reliability of AtoN equipment. | Revise Guideline | 2 |  |  |  |  |  |  |  |  |
| Update G1077 Dec 2009 Maintenance of AtoN 1.0 Information to help develop a maintenance strategy. Several annexes are attached to provide detailed information on the activities involved in the [maintenance. | Revise Guideline | 2 |  |  |  |  |  |  |  |  |
| Develop Guideline on complimentary use of AtoN. Eg. Tsunami monitoring, Met Hydro monitoring, Private communications platforms etc. | New guideline on Complimentary use of AtoN | 2 |  |  |  |  |  |  |  |  |
| Develop Guideline on meteorological and oceanographical data disemination | New Guideline | 2 |  |  |  |  |  |  |  |  |
| Navguide review | Review of the Navguide for the 2027 publication | All |  |  |  |  |  |  |  |  |
| Update and Amalgamate the Guidelines 1108, 1136 and new guideline “AtoN equipment and structures exposed to extreme environmental conditions into one guideline” | New single Guideline on AtoN in extreme environmental conditions | 2 |  |  |  |  |  |  |  | If task not completed before the end of the current extended period 2018-2023 |
| Update G1007 ENG Dec 2005 Lighthouse maintenance structural composition, constructions, accommodation facilities and physical and environmental effects. | Revise Guideline | 2 |  |  |  |  |  |  |  |  |
| Update G1064 Dec 2008 Integrated power system lanterns (Solar LED lanterns) | Revise Guideline | 2/1 |  |  |  |  |  |  |  |  |
| * 1. Floating Aids to Navigation | Develop guidance quantifying characteristics to meet nautical and operational requirements and ways to verify them | New guideline | 2 |  |  |  |  |  |  |  | If task not completed before the end of the current extended period 2018-2023 |
| Develop new guideline on radar reflector (reflection) properties | New guideline on radar reflectors. | 2 |  |  |  |  |  |  |  |  |
| Creating an overview guidance on floating AtoN | New Guideline on floating AtoN | 2 |  |  |  |  |  |  |  |  |
| Update Recommendation E-107 May 2009 Moorings for floating AtoN 2.0 Technical recommendation on moorings. | Updated Recommendation on moorings for floating AtoN | 2 |  |  |  |  |  |  |  |  |
| Update G1066 June 2010 Design of floating AtoN moorings 1.1 General consideration on mooring materials, and comparison of mooring loads and design. | Updated Guideline on Design of floating AtoN moorings | 2 |  |  |  |  |  |  |  |  |
| * 1. Environment & Sustainability | Review and update as necessary G1036, the Green Guide | Revise guideline on Environmental and Sustainability responsibilities. | 2 |  |  |  |  |  |  |  |  |
|  | Guideline on how to assess the through life environmental impact of AtoN and AtoN provision | New guideline | 2 |  |  |  |  |  |  |  |  |
|  | Sustainability workshop | Hold a workshop on Sustainability in the provision of AtoN | 2 |  |  |  |  |  |  |  |  |
| * 1. Heritage and Culture | Maintain the Heritage web page on the IALA website | Updated Heritage web page | 4 |  |  |  |  |  |  |  |  |
| Develop Guidance on modern equipment in traditional lighthouses | New Guideline | 2 |  |  |  |  |  |  |  |  |
| Heritage LH of the Year award | Maintain the Award | 4 |  |  |  |  |  |  |  |  |
| Write the Heritage module for the WWA L1.1 AtoN Manager course | New module on Heritage to include in the L1.1 course. | 4 |  |  |  |  |  |  |  |  |
| Review of documents | All documents pertinent to heritage reviewed | 4 |  |  |  |  |  |  |  |  |
| Update G1063 ENG Dec 2008 Agreement for complementary use of lighthouse property.  What should the agreement contain and safety aspect of the agreement including examples of few countries. | Updated Guideline | 2 |  |  |  |  |  |  |  |  |
| Review Guidelines 1074, 1075 & 1076 on Branding, Business plans and Building Conditioning for content and relevance. | Reviewed guidelines | 2&4 |  |  |  |  |  |  |  |  |
| * 1. Power systems | Deliver a Workshop on AtoN Engineering | Workshop | All |  |  |  |  |  |  |  |  |
| 1. **Standard 1030 – Radionavigation services** | | | | | | | | | | | |
| * 1. Satellite positioning and timing | Guidance on timing and synchronisation | New Guideline on the need and potential solutions | 3 |  |  |  |  |  |  |  |  |
| * 1. Terrestrial positioning and timing (including eLoran, eChayka, R-mode) | R-Mode development | Development of R-Mode Guideline  Coordination of R-Mode test beds | 3 |  |  |  |  |  |  |  |  |
| * 1. Racon & radar positioning | Radar & Enhanced Racon positioning | Development of eRacon/eRadar technology  Review related IALA documents | 3 |  |  |  |  |  |  |  |  |
| * 1. Augmentation services (SBAS & DGNSS) | Augmentation systems | Watching brief on DGNSS developments, both SBAS and marine Radiobeacon and update IALA documents as necessary |  |  |  |  |  |  |  |  |  |
| High accuracy systems | Guidance on new systems and how they can be used | 3 |  |  |  |  |  |  |  |  |
| * 1. Document updates | Review and update the WWRNP | Reissued WWRNP | 3 |  |  |  |  |  |  |  |  |
| Review and updates of documents related to the WG topics. | Revised Recommendations and standards | 3 |  |  |  |  |  |  |  |  |
| * 1. Liaison with related bodies | MASS overview and support | Watching brief on MASS developments and support for the PAP MASS task Group  Write allocated sections in the joint MASS Guideline led by ENAV | 1,2 & 3 |  |  |  |  |  |  |  |  |
| S100 – S200 support | Watching brief on S-200 developments and response to any developments | 3 |  |  |  |  |  |  |  |  |
| Liaison with related bodies | Provide updates as needed, e.g. to ITU-R M.823 and others as required. | 3 |  |  |  |  |  |  |  |  |
| * 1. PNT technology review | Monitor developments in radionavigation topics for information exchange and development of appropriate guidance (inc. resilient PNT, cyber security, timing aspects etc). | Rapporteur reports and new documents as required. | 3 |  |  |  |  |  |  |  |  |
| 1. **Standard 1050 Training and Certification** | | | | | | | | | | | |  | Information exchange |
|  | WWA Lesson plans to review | Review and updating of the WWA Lesson plans as requested by the Academy | All |  |  |  |  |  |  |  |  |
| 1. **Standard 1060 Digital communication technologies** | | | | | | | | | | | |

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|  | Update G1008 May 2009 Remote control and monitoring of AtoN 2.0 Objectives of remote control and monitoring, and technical aspects such as communication links, display, maintenance and integration with other systems. | Revise Guideline | 2 |  |  |  |  |  |  |  |  |