|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Standard | Topic Area | Task | Description | Expected outcome | Committee (\*leading) | Committee work item no. | Status (Color) | Remarks |
| S1010 Marine Aids to Navigation Planning And Service Requirements | S1010.1 Obligations and regulatory compliance | ARM 1.1.1 Monitor IMO work on STCW and develop IMO submissions and supporting advice on amendments to STCW in respect of IALAs inclusion within the Convention to cover AtoN training for navigators. | Develop a training course and make relevant training material available to enhance mariner's understanding of marine aids to navigation (AtoN) and to facilitate the effective use thereof. IALA contribute to revising the STCW and relevant Model Courses. | Input to relevant IMO meetings and update IMO Model courses | ARM\* | ARM\*-1.1.1 | Not started |  |
|  |  | DTEC 1.1.1 Consider developing guidance on the certification of technical equipment, information systems and technical infrastructure related to MASS in the domain of IALA | Develop a guideline on the certification of technical MASS equipment, information systems, and technical infrastructure within the domain of IALA. | New Guideline | DTEC\*   ENG   VTS   ARM | DTEC\*-1.1.1   ENG-1.2.1   VTS-2.8.3   ARM-1.1.2 | Not started |  |
|  |  | ARM 1.1.2 Consider developing guidance on the certification of technical equipment, information systems and technical infrastructure related to MASS in the domain of IALA |  |  | ARM   DTEC\*   ENG   VTS | ARM-1.1.2   DTEC\*-1.1.1   ENG-1.2.1   VTS-2.8.3 | Not started |  |
|  |  | VTS 2.5.2 Develop Technical Service Specifications for VTS | Develop technical service specifications for digital data exchange between VTS and other entities - primarily ships. a) Technical Service Specification for VTS Traffic Clearance b) Technical service Specification for Route Exchange | Technical service specification | VTS\*   VTS   VTS | VTS\*-2.5.2   VTS-2.5.2.a   VTS-2.5.2.b | Not started |  |
|  |  | VTS 2.8.3 Develop guidance on the certification of technical equipment, information systems and technical infrastructure related to MASS in the domain of IALA |  |  | VTS   DTEC\*   ARM   ENG | VTS-2.8.3   DTEC\*-1.1.1   ARM-1.1.2   ENG-1.2.1 | Not started |  |
|  |  | ENG 3.1.3 Develop guidance on Resilient PNT |  |  | ENG\* | ENG\*-3.1.3 | Finished |  |
|  |  | VTS 3.8.2 Develop guidance for remote training in VTS | Develop a Guideline for Remote training in VTS | New or revised guideline | VTS\* | VTS\*-3.8.2 | Not started |  |
|  |  | VTS 3.8.7.b Revision of IALA VTS Model Course b) C0103-4 OJT Instructor training |  | Model Course | VTS   VTS   VTS | VTS-3.8.7.b   VTS-3.8.7.a   VTS-3.8.7.c | On track |  |
|  |  | VTS 3.8.7.c Revision of IALA VTS model course c) C0103-5 VTS Revalidation Process |  | Model Course | VTS   VTS   VTS | VTS-3.8.7.c   VTS-3.8.7.a   VTS-3.8.7.b | Not started |  |
|  |  | VTS 3.9.1 Consider relevant VTS documents to be revised /updated | Revise and update VTS recommendations, guidelines, and model courses | Revised VTS documents | VTS   VTS   VTS | VTS-3.9.1   VTS-1.9.1   VTS-2.9.1 | Not started |  |
|  | S1010.2 Aids to Navigation planning | ENG 1.1.3 Develop guidance on the provision of Marine AtoN for autonomous vehicle/vessel operations (Maritime Autonomous Surface Ship, MASS). |  |  | ENG   DTEC\*   ARM   VTS | ENG-1.1.3   DTEC\*- 1.2.4   ARM-1.2.8   VTS-1.8.3 | Not started |  |
|  |  | ENG 1.1.1 Compile new Guidelines on AtoN tender requirements and specifications, which are led by ARM with ENG support. | New Guideline on Tender requirements. | New Guideline on Tender requirements | ENG   ARM\* | ENG-1.1.1   ARM\*-1.2.1 | Not started |  |
|  |  | ARM 1.2.1 Compile new Guideline on AtoN Buoy Tender requirements and specification | New Guideline on Tender requirements. | New Guideline | ARM\*   ENG | ARM\*-1.2.1   ENG-1.1.1 | Not started |  |
|  |  | DTEC 1.2.1 Providing guidance on the process to implement developments of innovation | Develop a guideline on how to move from development test bed/trial reporting to implementation of innovative solutions. | New Guideline | DTEC | DTEC-1.2.1 | Not started |  |
|  |  | ARM 1.2.2 Compile guidance for buoy tender activities | WWA related | Model courses | ARM\* | ARM\*-1.2.2 | Not started |  |
|  |  | DTEC 1.2.2 Development of aspects of digital communications, including promoting broadband connectivity for operational technology. | Based on IHO/IALA portrayal and IALA comms workshop output. |  | DTEC\*   ARM | DTEC\*-1.2.2   ARM-1.2.4 | Not started |  |
|  |  | ARM 1.2.3 Full review of Guideline G1078 The Use of AtoN in the Design of Fairways | Revise Guideline G1078 | Revised Guideline | ARM\* | ARM\*-1.2.3 | Not started |  |
|  |  | DTEC 1.2.3 Review relevant sections of the NAVGUIDE |  |  | DTEC   ARM\*   VTS | DTEC-1.2.3   ARM\*-1.2.9   VTS-1.8.2 | Not started |  |
|  |  | ARM 1.2.4 Development of aspects of digital communications, including promoting broadband connectivity for operational technology. |  |  | ARM   DTEC\* | ARM-1.2.4   DTEC\*-1.2.2 | Not started |  |
|  |  | ARM 1.2.5 Guidance on the use of simple IOT sensors on physical aids | Establish requirement for IOT sensors. | Guideline | ARM\* | ARM\*-1.2.5 | Not started |  |
|  |  | ARM 1.2.6 Develop further guidance for navigators on the use of AtoN | Develop a guideline and make relevant training material available to enhance mariners' understanding of marine aids to navigation (AtoN) and to facilitate the effective use thereof. | Guideline Model course for use in STCW courses | ARM\* | ARM\*-1.2.6 | Not started |  |
|  |  | ARM 1.2.7 Prepare an appropriate submission to IMO advising of the publication of the updated MBS highlighting MATON and MASS content. |  | Proposal for IMO Circular revision | ARM\* | ARM\*-1.2.7 | Finished |  |
|  |  | ARM 1.2.9 Review relevant sections of NAVGUIDE in cooperation with the Secretariat |  | Revised NAVGUIDE | ARM\*   VTS   DTEC   ENG | ARM\*-1.2.9   VTS-1.8.2   DTEC-1.2.3   ENG-8.1.2 | Not started |  |
|  |  | VTS 1.8.2 Review relevant sections of NAVGUIDE in cooperation with the Secretariat |  |  | VTS   ARM\*   ENG   DTEC | VTS-1.8.2   ARM\*-1.2.9   ENG-8.1.2   DTEC-1.2.3 | Not started |  |
|  |  | VTS 1.8.3 Develop guidance on the provision of AtoN and risk management for autonomous vehicle/vessel operations (Maritime Autonomous Surface Ship, MASS) |  |  | VTS   DTEC\*   ARM   ENG | VTS-1.8.3   DTEC\*-1.1.1   ARM-1.2.8   ENG-1.1.3 | Not started |  |
|  |  | VTS 2.8.6 Develop Recommendation and Guideline on the use of Drones for AtoN inspection and maintenance |  | New recommendation and guideline | VTS   ARM\* | VTS-2.8.6   ARM\*-2.2.1 | Not started |  |
|  |  | ARM 1.2.8 Develop guidance on the provision of Marine AtoN for autonomous vehicle/vessel operations (Maritime Autonomous Surface Ship, MASS). |  |  | ARM   DTEC\*   VTS   ENG | ARM-1.2.8   DTEC\*-1.2.4   VTS-1.8.3   ENG-1.1.3 | Not started |  |
|  |  | DTEC 1.2.4 Develop guidance on the provision of Marine AtoN for autonomous vehicle/vessel operations (Maritime Autonomous Surface Ship, MASS). | The Guideline will be continued leaded by DTEC | New Guideline | DTEC\*   VTS   ENG   ARM | DTEC\*-1.2.4   VTS-1.8.3   ENG-1.1.3   ARM-1.2.8 | Not started |  |
|  | S1010.3 Levels of service (objectives, Availability and Categories) |  |  |  |  |  |  |  |
|  | S1010.4 Risk management | DTEC 1.4.1 Develop Guidance on Risk Assessment and Certification Methods in the context of e-Navigation | Development of guidance documents on Risk Assessment and Certification Methods in the context of e-Navigation. | Recommendation or Guideline | DTEC\* | DTEC\*-1.4.1 | Not started |  |
|  |  | ARM 1.4.1 Develop comprehensive guidance that will assist members enhance the safety of navigation and environmental protection in / around offshore renewable energy installations (OREI). |  | A document providing comprehensive guidance that will assist members enhance the safety of navigation and environmental protection in / around offshore renewable energy installations (OREI). | ARM\*   VTS | ARM\*-1.4.1   VTS-1.8.5 | Not started |  |
|  |  | ENG 1.4.1 Develop guidance on cyber security for Marine AtoN |  |  | ENG   ARM\*   VTS   DTEC | ENG-1.4.1   ARM\*-1.4.3   VTS-2.8.4   DTEC-1.4.2 | Not started |  |
|  |  | ARM 1.4.10 Develop a Guideline for Risk Assessment and Cyber Security | Guideline for Risk Assessment and Cyber Security including Risk assessment methods, Identification of risks, Identification of counter measures, Identification of core elements to ensure cyber security | New or revised Guideline | ARM\*   DTEC   VTS | ARM\*-1.4.10   DTEC-1.4.3   VTS-2.8.4 | Not started |  |
|  |  | ARM 1.4.11 Develop guidance on measurement to monitor waterway risk | Develop measures for and a method to monitor waterway risk. Includes effectiveness of risk mitigations, qualitative validation with stakeholders, and reevaluation of risks. | Update Recommendations and Guidelines as appropriate | ARM\* | ARM\*-1.4.11 | Not started | New task (ARM17-11.4.3) |
|  |  | ARM 1.4.2 Consider the development of IALA as a facilitator for an ISAC (Information Sharing and Analysis Centre) in relation to cyber security. | Reference the result of the IALA Cyber Security workshop. | Discussion paper on ISAC (Information Sharing and Analysis Centre) | ARM\* | ARM\*-1.4.2 | Not started |  |
|  |  | DTEC 1.4.2 Develop guidance on cyber security for Marine AtoN |  | Guideline | DTEC   ARM\*   ENG   VTS | DTEC-1.4.2   ARM\*-1.4.3   ENG-1.4.1   VTS-2.8.4 | Finished |  |
|  |  | ARM 1.4.3 New guideline in support of the recommendation on Cyber security |  | Guideline | ARM\*   ENG   VTS   DTEC | ARM\*-1.4.3   ENG-1.4.1   VTS-2.8.4   DTEC-1.4.2 | Not started |  |
|  |  | DTEC 1.4.3 Develop a Guideline for Risk Assessment and Cyber Security |  | New or revised Guideline | DTEC   ARM\*   VTS | DTEC-1.4.3   ARM\*-1.4.10   VTS-2.8.4 | Not started |  |
|  |  | ARM 1.4.4 Review Risk Management related documentation. Update as per ongoing risk toolbox developments. | Reviewed recommendations and guidelines |  | ARM\* | ARM\*-1.4.4 | Not started |  |
|  |  | ARM 1.4.5 Develop a method to quantify and evaluate various risk mitigation options |  | Revised guidelines | ARM\* | ARM\*-1.4.5 | Not started |  |
|  |  | ARM 1.4.6 Encourage IALA members and other organisations to share historic AIS and other vessel tracking data with IALA. IALA aims to use such data for risk assessment, research and training purposes. | Review existing guidance (including G1086) and develop new guidance to assist IALA in its aim to gather historic AIS and other vessel tracking data. | Revised guidelines | ARM\* | ARM\*-1.4.6 | Not started |  |
|  |  | ARM 1.4.7 Conduct a global scan of current risk analysis tools and identify potential candidates for inclusion within the IALA Risk Management Toolbox. |  | Risk management toolbox survey | ARM | ARM\*-1.4.7 | Not started |  |
|  |  | ARM 1.4.8 Monitor the IRMAS reporting tool, ensuring it meets the requirements for future records of risk management. Ensure the form is modified as required. |  | Reportage | ARM\* | ARM\*-1.4.8 | Not started |  |
|  |  | ARM 1.4.9 Ensure long term sustainable supportability for IWRAP Software. |  |  | ARM\* | ARM\*-1.4.9 | Not started |  |
|  |  | VTS 1.8.5 Enhancing the safety and efficiency of navigation around offshore installations |  |  | VTS   ARM\* | VTS-1.8.5   ARM\*-1.4.1 | Not started |  |
|  |  | VTS 2.8.4 Develop a Guideline for Risk Assessment and Cyber Security |  | new or revised Guideline | VTS   ARM\*   DTEC | VTS-2.8.4   ARM\*-1.4.10   DTEC-1.4.3 | On track |  |
|  | S1010.5 Quality management | ARM 1.5.1 Develop a recommendation and guideline consolidating content from G1030, G1035 and G1004. | Compile a recommendation and guideline to incorporate all references relating to the Categorization, Availability Objectives (G1030), Availability and Reliability for Short Range Aids to Navigation (G1035), Calculation of Availability (G1004) and relevant text appearing in the 2018 & draft 2023 NAVGUIDE that are not cross-referenced in the aforementioned Guidelines. | Recommendation, Guideline | ARM\* | ARM\*-1.5.1 | Not started |  |
|  |  | ARM 1.5.2 Revision of Guideline 1052 on Quality Management in Marine Aids to Navigation Service Delivery | Revised Guideline G1052 | Revised Guideline | ARM\* | ARM\*-1.5.2 | Not started |  |
|  |  | ARM 1.5.3 Revise Recommendation R0132 Quality management for AtoN authorities | New edition of R0132 | Revised Recommendation | ARM\* | ARM\*-1.5.1 | Not started |  |
|  |  | VTS 1.8.4 Develop a guideline on quality management system for VTS | Develop a guideline on quality management system for VTS |  | VTS\* | VTS\*-1.8.4 | On track |  |
| S1020 Marine Aids to Navigation Design and Delivery | S1020.1 Aids to Navigation signalling | ENG 2.1.1 Update G1043 Light sources used in visual AtoN | Review & update guideline G1043 on Light sources and amalgamate with Guideline on modern equipment in traditional lighthouses | New amalgamated Guideline | ENG\* | ENG\*-2.1.1 | Not started |  |
|  |  | ARM 2.1.1 Consider developing guidance on the marking of test areas for autonomous vessels and vehicles, ice roads and competition and event areas etc | Develop Guidance on the marking of test area for autonomous/remote controlled ships/vehicles, ice roads and competition event areas. | New Guideline | ARM\* | ARM\*-2.1.1 | Not started |  |
|  |  | ENG 2.1.2 Update G1048 LED technologies and their use in signal lights | Update Guideline 1048 LED Technologies and their use in signal lights | Revised Guideline | ENG\* | ENG\*-2.1.2 | Not started |  |
|  |  | ENG 2.1.3 Develop guideline on Port Traffic Signals | Develop a new guideline on Port Traffic Signals in consultation with ARM | New Guideline | ENG\* | ENG\*-2.1.3 | On track |  |
|  |  | ENG 2.1.4 Update R0112 Leading lights | Update E-112 Leading Lights and 1023 Leading Lines into a guideline | New Guideline | ENG\* | ENG\*-2.1.4 | On track |  |
|  |  | ENG 2.1.5 Update G1061 Light application illumination of structures | Complete Guideline G1061 (2008) on Illumination of Structures | Revised Guideline | ENG\* | ENG\*-2.1.5 | Not started |  |
|  |  | ENG 2.1.6 Develop Guidance on modern equipment in traditional lighthouses | Develop Guidance on modern equipment in traditional lighthouses | New Guideline | ENG\* | ENG\*-2.1.6 | Not started |  |
|  |  | ENG 2.1.6.a Convert R0203(E200-3) to a New Guideline on Light Measurement | Convert R0203(E200-3) to a new guideline on light measurement | New Guideline | ENG\* | ENG\*-2.1.6.a | On track |  |
|  |  | ENG 2.1.6.b Convert R0203(E200-3) into a New Guideline on Light Measurement Uncertainty | Convert R0203(E200-3) into a new guideline on light measurement uncertainty | New Guideline | ENG | ENG-2.1.6.b | Not started |  |
|  |  | ENG 2.1.7 Develop Guidance on monitoring of function and degradation of AtoN light sources | Develop Guidance on monitoring of function and degradation of AtoN light sources | Add to G1077 | ENG\* | ENG\*-2.1.7 | Not started |  |
|  |  | ENG 2.1.8 Update G1041 Sector Lights | Update Guideline 1041 on Sector Lights to define Angle of Uncertainty | Revised Guideline | ENG\* | ENG\*-2.1.8 | Not started |  |
|  | S1020.2 Design, Implementation & Maintenance | ENG 2.2.1 Update G1037 Data collection for AtoN performance calculation | Update G1037 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. | Revised Guideline | ENG\* | ENG\*-2.2.1 | Warning |  |
|  |  | ARM 2.2.1 Full review of A-126, G1084 and other AIS associated documentation | ARM coordinate cross-committee review to consolidate and update AIS documentation into a succinct document suite. | Revised or recommended Guidelines | ARM\*   ENG   VTS   DTEC | ARM\*-2.2.1   ENG-2.2.5   VTS-2.8.5   DTEC-2.2.1 | Not started |  |
|  |  | DTEC 2.2.1 Full review of A-126, G1084 and other AIS associated documentation |  | Revised recommendations and guidelines | DTEC   ARM\*   ENG   VTS | DTEC-2.2.1   ARM\*-2.2.1   ENG-2.2.5   VTS-2.8.5 | Not started |  |
|  |  | ARM 2.2.1 Develop Recommendation and Guideline on the use of Drones for AtoN inspection and maintenance |  | New recommendation and guideline | ARM\*   VTS | ARM\*-2.2.1   VTS-2.8.6 | Not started |  |
|  |  | ENG 2.2.2 Update G1077 Maintenance of AtoN | Update G1077 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. | Revised Guideline | ENG\* | ENG\*-2.2.2 | On track |  |
|  |  | ARM 2.2.2 Develop an IALA guideline on the Maritime Architecture Framework |  | New Guideline | ARM\* | ARM\*-2.2.2 | Not started |  |
|  |  | ENG 2.2.3 Develop Guideline on complimentary use of AtoN | Develop Guideline on complimentary use of AtoN. Eg. Tsunami monitoring, Met Hydro monitoring, Private communications platforms etc. Develop Guideline on meteorological and oceanographical data dissemination | New guideline on Complimentary use of AtoN | ENG\* | ENG\*-2.2.3 | On track |  |
|  |  | ARM 2.2.3 Develop an IALA recommendation and guideline on the Harmonized National Waterway Concept | Develop recommendation & guideline (with possible repository of waterways hosted by IALA) | Recommendation & Guideline | ARM\* | ARM\*-2.2.3 | Not started |  |
|  |  | ENG 2.2.4 Update and Amalgamate the Guidelines G1108 and G1136 | Update and Amalgamate the Guidelines 1108, 1136 and new guideline | New single Guideline on AtoN in extreme environmental conditions | ENG\* | ENG\*-2.2.4 | On track |  |
|  |  | ENG 2.2.5 Full review of A-126, G1084 and other AIS associated documentation |  | Revised recommendations and guidelines | ENG   ARM\*   VTS   DTEC | ENG-2.2.5   ARM\*-2.2.1   VTS-2.8.5   DTEC-2.2.1 | Not started |  |
|  | S1020.3 Floating Aids to Navigation | ENG 2.3.1 Develop guidance quantifying floating AtoN characteristics | Develop guidance quantifying characteristics to meet nautical and operational requirements and ways to verify them | new or revised guideline | ENG\* | ENG\*-2.3.1 | On track |  |
|  |  | ARM 2.3.1 Update G1066 Design of floating AtoN moorings |  | Updated Guideline on Design of floating AtoN moorings | ARM   ENG\* | ARM-2.3.1   ENG\*-2.3.4 | Not started |  |
|  |  | ENG 2.3.2 Creating an overview guidance on floating AtoN | Creating overview guidance on floating AtoN to assist Competent Authorities, AtoN providers and AtoN manufacturers when selecting floating AtoN for different purposes, depending on nautical, geographical and operational requirements. | New Guideline on floating AtoN | ENG\* | ENG\*-2.3.2 | On track |  |
|  |  | ENG 2.3.3 Update Recommendation R0107 (E-107) Moorings for floating AtoN | Update Recommendation E-107 Moorings for floating AtoN 2.0 Technical recommendation on moorings. | Updated Recommendation on moorings for floating AtoN | ENG\* | ENG\*-2.3.3 | On track |  |
|  |  | ENG 2.3.4 Update G1066 Design of floating AtoN moorings | Update G1066 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 | ENG\*   ARM | ENG\*-2.3.4   ARM-2.3.1 | On track |  |
|  | S1020.4 Environment and sustainability | ENG 2.4.1 Review and update as necessary G1036, the Green Guide | Review and update as necessary of G1036 on Environmental Management in Aids to Navigation (the Green Guide) | Revise guideline on Environmental and Sustainability responsibilities. | ENG\* | ENG\*-2.4.1 | Not started |  |
|  |  | ENG 2.4.2 Guidance on through life environmental impact | Guideline on how to assess the through life environmental impact of AtoN and AtoN provision | New Guideline | ENG\* | ENG\*-2.4.2 | Not started |  |
|  |  | ENG 2.4.3 Guideline on how to assess the through life environmental impact of AtoN and AtoN provision | Maintain the Heritage web page on the IALA website | Updated Heritage web page | ENG\* | ENG\*-2.4.3 | Not started |  |
|  | S1020.5 Power systems | ENG 2.5.1 Update G1064 Integrated power system lanterns (Solar LED lanterns) | Update G1064 Integrated power system lanterns (Solar LED lanterns) | Revised Guideline | ENG\* | ENG\*-2.5.1 | Not started |  |
|  | S1020.6 Heritage & Culture | ENG 2.6.1 Maintain the Heritage web page on the IALA website |  | Ongoing maintenance and improvement of the Heritage webpages, in particular new nominations for IALA HLY | ENG | ENG\*-2.6.1 | On track |  |
|  |  | ENG 2.6.2 Production of Technical or Guidance document on ‘good practice in modernising heritage lighthouses whilst minimising negative heritage impact’ |  | Guideline | ENG\* | ENG\*-2.6.2 | On track |  |
|  |  | ENG 2.6.3 Heritage Lighthouse of the Year award | Make proposal for the Heritage Llighthouse of the Year award | Maintain the Award | ENG\* | ENG-2.6.3 | On track |  |
|  |  | ENG 2.6.4 Write the Heritage lecture for the WWA L1.1 AtoN Manager course | Write the Heritage lecture for the WWA L1.1 AtoN Manager course | New module on Heritage to include in the L1.1 course. | ENG\* | ENG-2.6.4 | On track |  |
|  |  | ENG 2.6.5.a Review Guideline G1080 on the Management and Display of Heritage Artefacts | Produce revised guidance document on the Management and Display of Heritage Artefacts | Revised documents | ENG\* | ENG\*-2.6.5.a | On track |  |
|  |  | ENG 2.6.5.b Review Guideline G1093 on the management of surplus lighthouse property | Production of revised Guideline for the management of surplus lighthouse property |  | ENG\* | ENG\*-2.6.5.b | On track |  |
|  |  | ENG 2.6.6 Update G1063 Agreement for complementary use of lighthouses | Update G1063 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 | ENG\* | ENG\*-2.6.6 | On track |  |
|  |  | ENG 2.6.7.a Review Guidelines G1074 Branding and Marketing of Historic Lighthouses |  | Reviewed guidelines | ENG\* | ENG\*-2.6.7.a | On track |  |
|  |  | ENG 2.6.7.b Revision of the Guideline G1075 on a business plan for the complementary us of a historic lighthouse | Revision of the Guideline G1075 on a business plan for the complementary us of a heritage lighthouse | Revised Guideline | ENG\* | ENG\*-2.6.7.b | On track |  |
| S1030 Radionavigation Services | S1030.1 Satellite positioning and timing | ENG 3.1.1 Develop guidance on timing and synchronization | New Guideline on the need and potential solutions on timing and synchronization. | New Guideline | ENG\* | ENG\*-3.1.1 | On track |  |
|  |  | ENG 3.1.2 WWRNP review | Review and update the World Wide Radionavigation Plan (2012). | New Guideline | ENG\* | ENG\*-3.1.2 | On track |  |
|  | S1030.2 Terrestrial positioning and timing |  |  |  |  |  |  |  |
|  |  | ENG 3.2.1 R-Mode development | Development of R-Mode Guideline Coordination of R-Mode test beds | New Guideline | ENG | ENG-3.2.1 | Not started |  |
|  |  | ENG 3.2.2 Develop guidance on R-Mode implementation |  |  | ENG | ENG-3.2.2 | Not started |  |
|  |  | ENG 3.2.3 Coordination for Group Repetition Intervals (GRI) | Development on a procedure for issuing GRI and investigate if such procedures are also could be needed/combined for VDES R-Mode, DGNSS, AIS and etc. |  | ENG\* | ENG-3.2.3 | Warning |  |
|  |  | ENG 3.2.4 Guideline on medium frequency R-mode signal structure and navigation message |  |  | ENG | ENG-3.2.4 | Finished |  |
|  | S1030.3 Augmentation services | ENG 3.3.1 Augmentation systems | Monitoring DGNSS developments, both SBAS and marine Radiobeacon and update IALA documents as necessary | Reportage | ENG\* | ENG\*-3.3.1 | On track |  |
|  |  | ENG 3.3.2 High accuracy positioning systems | Guidance on new systems and how they can be used | New Guideline | ENG\* | ENG\*-3.3.2 | On track |  |
|  |  | ENG 3.3.3 Revision of DGNSS/DGPS radio beacon documents | Review and update several PNT documents (R0135 and R0150) and place them in the right format of recommendation and guidelines. | Reportage | ENG\* | ENG\*-3.3.3 | On track |  |
|  | S1030.4 Racon and Radar positioning | ENG 3.4.1 Radar & Racon | Development of eRacon/eRadar technology Review related IALA documents | Revised Guideline | ENG\* | ENG\*-3.4.1 | On track |  |
|  |  | ENG 3.4.2 Enhanced Racon positioning |  |  | ENG | ENG\*-3.4.2 | On track | ENG18 Added new task |
| S1040 Vessel Traffic Services | S1040.1 VTS Implementation | VTS 1.1.2 Develop guidance for establishing a compliance and enforcement framework by participating ships in a VTS area | Develop guidance for establishing a compliance and enforcement framework by participating ships | New Guideline | VTS\* | VTS\*-1.1.2 | Not started |  |
|  |  | VTS 1.1.3.b Develop guidance on the implications of maritime autonomous surface ships (MASS) from a VTS perspective | New Guideline or contribute to a single IALA MASS guideline |  | VTS | VTS-1.1.3.b | Not started |  |
|  |  | VTS 1.1.4 Develop guidance on delineating the VTS area | Develop guidance on delineating the VTS area. considering risk assessment and MRN | New or revised Guideline | VTS\*   ARM | VTS\*-1.1.4   ARM-4.1.1 | Not started |  |
|  |  | VTS 1.1.5 Develop guidance to assist competent authorities for VTS establish an appropriate policy and regulatory framework to meet their obligations | Develop guidance for digital route exchange within VTS operations (application of S-421) | New Guideline | VTS\* | VTS\*-1.1.5 | Not started |  |
|  |  | VTS 3.1.1 Develop guidance for dealing with stress or trauma in VTS operations | Develop new IALA guidance in establishing support for VTS Personnel that have handled a significantly stressful or traumatic incident in VTS operations | New IALA guidance in establishing support protocols for VTS Personnel following a significantly stressful or traumatic incident | VTS\* | VTS\*-3.1.1 | Not started |  |
|  |  | ARM 4.1.1 Develop guidance on delineating the VTS area |  | New or revised Guideline | ARM   VTS\* | ARM-4.1.1   VTS\*-1.1.4 | Not started |  |
|  | S1040.2 VTS Operations | VTS 1.1.3.a Develop guidance on the implications of maritime autonomous surface ships (MASS) from a VTS perspective | a) Develop guidance on the implications of maritime autonomous surface ships (MASS) from a VTS perspective. b) Assess the implications associated with the advent of MASS on IALA Standards specifically related to the establishment and operation of VTS (scoping exercise) | To provide a Guideline to assist VTS providers prepare for interacting with ship traffic comprising a dynamic mix of conventional, automized and autonomous ships in a manner that ensures VTS achieves its purpose of mitigating the development of unsafe sit | VTS | VTS-1.1.3.a | On track |  |
|  |  | VTS 1.2.1 Develop guidance for digital route exchange within VTS operations | Develop guidance for digital route exchange within VTS operations (application of S-421) | New Guideline | VTS\* | VTS\*-1.2.1 | Not started |  |
|  |  | VTS 1.9.2 Continuous update of the VTS Manual | Update and publish the VTS Manual following each IALA Council meeting to ensure an updated electronic version is always available. | Continuous update of the VTS Manual | VTS\* | VTS\*-1.9.2 | On track |  |
|  | S1040.3 VTS Communications | VTS 1.3.1 Develop guidance on VTS digital communications | Develop guidance on VTS digital communications (operational aspects) (in consultation with DTEC) | New Guideline | VTS\*   DTEC | VTS\*-1.3.1   DTEC-6.3.2 | Not started |  |
|  |  | VTS 1.3.2 Review and update IMO Resolution A.918(22) on SMCP | Revision of IMO Resolution A.918(22) IMO Standard Marine Communication Phrases, particularly as regards VTS communication phrases. | Revised IMO Resolution on SMCP | VTS\* | VTS\*-1.3.2 | On track |  |
|  |  | VTS 3.8.8 Consider including English language competency requirements in VTS operations | New guidance on development of [or provision of] a VTS specific English language assessment. | New guidance on a competency testing framework for VTS English Communications | VTS\* | VTS\*-3.8.8 | On track |  |
|  |  | DTEC 6.3.2 Develop guidance on VTS digital communications | Develop a guideline for migrating current analogue VHF voice communications to digital VHF voice communications. | New Guideline | DTEC   VTS\* | DTEC-6.3.2   VTS\*-1.3.1 | Not started |  |
|  | S1040.4 VTS auditing and assessing |  |  |  |  |  |  |  |
|  | S1040.5 VTS data and Information management | VTS 2.5.2.a Develop Technical Service Specification for VTS Traffic Clearance |  |  | VTS   VTS\*   VTS | VTS-2.5.2.a   VTS\*-2.5.2   VTS-2.5.2.b | Not started |  |
|  |  | VTS 2.5.2.b Develop Technical Service Specifications for Route Exchange |  |  | VTS   VTS\*   VTS | VTS-2.5.2.b   VTS\*-2.5.2   VTS-2.5.2.a | Not started |  |
|  | S1040.6 VTS technologies | VTS 2.6.1 Update G1111-1 Producing requirements for the core VTS system | Consider updating G1111-1 to include guidance on VTS management information systems | Revised VTS documents | VTS\* | VTS\*-2.6.1 | Not started |  |
|  |  | VTS 2.8.1 Develop a Product Specification S-212 for VTS on digital information | Develop a Product Specification S-212 under the S-100 framework for VTS | New Product specification | VTS\* | VTS\*-2.8.1 | Not started |  |
|  |  | VTS 2.8.2 Review and update Recommendation R0145 | Review and update Recommendation R0145 (V-145) on the Inter-VTS Exchange Format (IVEF) Service (Output to be a revised Recommendation and associated Guideline including a technical service and/or product specification S-210) | Revised recommendation and new Guideline | VTS\* | VTS\*-2.8.2 | Not started |  |
|  |  | VTS 2.8.5 Full review of A-126, G1084 and other AIS associated documentation |  | Revised recommendations and guidelines | VTS   ARM\*   ENG   DTEC | VTS-2.8.5   ARM\*-2.2.1   ENG-2.2.5   DTEC-2.2.1 | Not started |  |
|  | S1040.7 VTS additional services |  |  |  |  |  |  |  |
| S1050 Training and Certification | S1050.1 Training and assessment | VTS 3.8.1 Revision of G1103 Train the Trainer | Revision of G1103 on Train the Trainer | Revised Guideline | VTS\* | VTS\*-3.8.1 | Not started |  |
|  |  | VTS 3.8.3 Develop a model course on incident response and crisis coordination |  | Model course | VTS   ARM\* | VTS-3.8.3   ARM\*-5.1.1 | Not started |  |
|  |  | VTS 3.8.4 WWA lesson plans to review |  | Review and update of the WWA Lesson plans | VTS   ENG\*   ARM   DTEC | VTS-3.8.4   ENG\*-5.1.1   ARM-5.1.3   DTEC-5.1.1 | Not started |  |
|  |  | VTS 3.8.5 Training in implementation of digital solutions (data analytics & maritime informatics) |  | New Guideline and training programs | VTS   DTEC\*   ARM   ENG | VTS-3.8.5   DTEC\*-5.1.2   ARM-5.1.2   ENG-5.1.2 | Not started |  |
|  |  | VTS 3.8.6 Revision of G1027 on Simulation in VTS training | Revision of G1027 on Simulation in VTS training | Revised guideline | VTS\* | VTS\*-3.8.6 | On track |  |
|  |  | VTS 3.8.7.a Revision of IALA VTS Model Courses a) C0103-2 VTS supervisor |  | Model Courses | VTS   VTS   VTS | VTS-3.8.7.a   VTS-3.8.7.c   VTS-3.8.7.b | Not started |  |
|  |  | ARM 5.1.1 Develop a model course on incident response and crisis coordination | Develop a model course on training on incident response and for crisis coordinators within AtoN and VTS system operating organisations. | Model course | ARM\*   VTS | ARM\*-5.1.1   VTS-3.8.3 | Not started |  |
|  |  | ENG 5.1.1 WWA lesson plans to review | Review and update of the WWA Lesson plans as requested by the Academy. | Review and update of the WWA Lesson plans | ENG\*   ARM   VTS   DTEC | ENG\*-5.1.1   ARM-5.1.3   VTS-3.8.4   DTEC-5.1.1 | Not started |  |
|  |  | DTEC 5.1.1 WWA lesson plans to review |  | Review and update of the WWA Lesson plans | DTEC   ENG\*   ARM   VTS | DTEC-5.1.1   ENG\*-5.1.1   ARM-5.1.3   VTS-3.8.4 | Not started |  |
|  |  | ARM 5.1.2 Training in implementation of digital solutions (data analytics & maritime informatics) |  | New Guideline and training programs | ARM   DTEC\*   ENG   VTS | ARM-5.1.2   DTEC\*-5.1.2   ENG-5.1.2   VTS-3.8.5 | Not started |  |
|  |  | ENG 5.1.2 Training in implementation of digital solutions (data analytics & maritime informatics) |  | New Guideline and training programs | ENG   DTEC\*   ARM   VTS | ENG-5.1.2   DTEC\*-5.1.2   ARM-5.1.2   VTS-3.8.5 | Not started |  |
|  |  | ARM 5.1.3 WWA lesson plans to review |  | Review and update of the WWA Lesson plans | ARM   ENG\*   VTS   DTEC | ARM-5.1.3   ENG\*-5.1.1   VTS-3.8.4   DTEC-5.1.1 | Not started |  |
|  |  | DTEC 5.1.2 Training in implementation of digital solutions (data analytics & maritime informatics) | Develop a guideline on skills related to the digital environment, such as data analytics and maritime informatics and associated training programs with WWA. | New Guideline and training programs | DTEC\*   ARM   ENG   VTS | DTEC\*-5.1.2   ARM-5.1.2   ENG-5.1.2   VTS-3.8.5 | Not started |  |
|  | S1050.2 Accreditation, competency certification and revalidation | VTS 3.4.1 Develop guidance on aptitudes required by VTS operators | Guidance specifying the aptitudes required by VTS operators (aptitude/psychometric testing?) and how to assess for those aptitudes taking into consideration national legislation and requirements. | New Guideline | VTS\* | VTS\*-3.4.1 | Not started |  |
|  |  | ARM 5.2.1 Develop a model course on AtoN Cyber Security arrangements |  | Model course | ARM\* | ARM\*-5.2.1 | Not started |  |
|  |  | ARM 5.2.2 Create S-100 model course | How to make use of S-100 product specifications | Model course | ARM\* | ARM\*-5.2.2 | Not started |  |
|  | S1050.3 Capacity building |  |  |  |  |  |  |  |
| S1060 Digital Communication Technologies | S1060.1 Wide and medium bandwith systems | DTEC 6.1.1 Review and update R0144 and G1095 - Update to the latest development of ASM |  | Recommendation and guideline | DTEC\* | DTEC\*-6.1.1 | Not started |  |
|  |  | ARM 6.1.1 Review G1050 Management and Monitoring of AIS Information | Coordinate with ARM WG3 (IALANET, etc.). | Revised guideline and Periodic Review | ARM\* | ARM\*-6.1.1 | Not started |  |
|  | S1060.2 Narrow bandwith systems | DTEC 6.2.1 Contribute to the development of IMT-2030 by formulating user requirements for Marine AtoN. | Contribute towards the development of 3GPP mobile communication standards, with a specific focus on the maritime industry vertical. | Guideline, Reportage, input to 3GPP | DTEC\* | DTEC\*-6.2.1 | Not started |  |
|  | S1060.3 Harmonised maritime connectivity | VTS 2.8.7 Develop guidance on Digital VHF communication | Develop a guideline for migrating current analogue VHF voice communications to digital VHF voice communications. | New guideline | VTS   DTEC\* | VTS-2.8.7   DTEC\*-6.3.2 | Not started |  |
|  |  | ARM 6.3.1 Review und update G1062 Establishment of AIS as a [Marine] Aid to Navigation | Update to the latest development of AIS; This revision must be reflected in G1022, i.e MatoN | Revised G1062 | ARM\* | ARM\*-6.3.1 | Not started |  |
|  |  | DTEC 6.3.10 New IALA Guideline on VDES system integration into ship and shore side | Develop documentation on the integration and operations of VDES for different user groups - leveraging the capabilities VDES provide and maintain them by managing the resource by optimized operations. | New Guideline | DTEC\* | DTEC\*-6.3.10 | On track |  |
|  |  | DTEC 6.3.11 Recommendation for the AIS Service | Develop Recommendation for the AIS Service Planned in draft Standard S1060 (supersedes A-124). Move recommendation A-124 content to Recommendation R0123 or remainder to Guideline(s) | New Recommendation | DTEC\*   ARM | DTEC\*-6.3.11   ARM-6.3.2 | Not started | might be part of task DTEC-6.3.10 |
|  |  | DTEC 6.3.12 Review of the contents of A-124 series recommendations | A-124 APPENDIX 0 to APPENDIX 19 become Guidelines for Recommendation R1008: Move recommendation A-124 content to Recommendation R0123 remainder to Guideline(s) | New Guideline | DTEC\*   ARM | DTEC\*-6.3.12   ARM-6.3.3 | On track |  |
|  |  | DTEC 6.3.13 Develop guidance on NAVDAT development considering shore based infrastructure | Draft Recommendation and Guideline for Digital navigational data system (NAVDAT) considering shore based infrastructure. | New Recommendation and Guideline | DTEC\* | DTEC\*-6.3.13 | Not started |  |
|  |  | ENG 6.3.1a Update G1008 Remote control and monitoring of AtoN | Remote control and monitoring of AtoN. Objectives of remote control and monitoring, and technical aspects such as communication links, display, maintenance and integration with other systems. | Revised Guideline | ENG\* | ENG\*-6.3.1a | Not started |  |
|  |  | DTEC 6.3.2 Develop guidance on Digital VHF communication | Develop a guideline for migrating current analogue VHF voice communications to digital VHF voice communications. | New Guideline | DTEC\*   VTS | DTEC\*-6.3.2   VTS-2.8.7 | Not started |  |
|  |  | ARM 6.3.2 Recommendation for the AIS Service |  | New R126 summarising underlying GuidelinesNew Guideline(s) containing valid information regarding the establishment of AIS as an AtoN | ARM   DTEC\* | ARM-6.3.2   DTEC\*-6.3.11 | Not started |  |
|  |  | DTEC 6.3.3 Develop a Guideline for VDES VDL integrity monitoring | Provide references and advice for authorities to monitor the integrity of VDL. Internally, make VDES VDL operating normally. Externally, specify the common services and functions of the AIS/VDES VDL monitoring system or platform. | New Guideline | DTEC\* | DTEC\*-6.3.3 | Finished |  |
|  |  | ARM 6.3.3 Review of the contents of A-124 series recommendations |  |  | ARM   DTEC\* | ARM-6.3.3   DTEC\*-6.3.12 | Not started |  |
|  |  | DTEC 6.3.4 Develop Guidelines on VDES Authentication Techniques | Describe potential methods for authenticating VDES transmissions, including VDES R-Mode signals. Provide basis for the development of an international standard for VDES authentication, so that all mariners can have trust in e-navigation communications and future resilient positioning, navigation and timing solutions based on VDES. | New Guideline | DTEC\* | DTEC\*-6.3.4 | On track |  |
|  |  | ARM 6.3.4 Define user requirements for Maritime Connectivity, Maritime Internet of Things (IoT), and MRN addressing (may be three subtasks) | Revised Guideline G1143 to include aspects relevant to MRN | Revised Guideline G1143 to include aspects relevant to MRN | ARM\* | ARM\*-6.3.4 | Not started |  |
|  |  | DTEC 6.3.5 Develop Guidelines on VDES resource sharing and coordination/cooperation | Develop a guideline that provides framework of VDES resource sharing and coordination / cooperation for VDES satellites providers, VDES land-stations and VDES users to realize smooth and effective VDES communications on both official and private communications. | New Guideline | DTEC\* | DTEC\*-6.3.5 | On track |  |
|  |  | DTEC 6.3.6 Review and update R1007 The VHF Data Exchange System (VDES) for shore infrastructure | Update to the latest development of AIS | Revised R1007 | DTEC\* | DTEC\*-6.3.6 | Finished |  |
|  |  | DTEC 6.3.7 Liaise with ITU on Recommendation ITU-R.M 2092-1 | LN to ITU WP5B in regards with the Recommendation ITU-R.M 2092-1: Consider future development of VDES | Liaison note | DTEC\* | DTEC\*-6.3.7 | On track |  |
|  |  | DTEC 6.3.8 Liaise with IEC on the Test standard for VDES | Test standard for VDES: Contribute to the development of VDES test standard | Liaison note and input document | DTEC\* | DTEC\*-6.3.8 | On track |  |
|  |  | DTEC 6.3.9 Develop guidance on documentation on communications channels for public service digital information services in coastal areas | Develop documentation on (free-to-air, non-commercial) communications channels to be used by coastal authorities for digital information transfer between ship and shore in coastal areas may absorb A-123 and A-124 | New Recommendation or Guideline | DTEC\* | DTEC\*-6.3.9 | Not started |  |
|  |  | ENG E6.3.1b Harmonised IoT protocol for visual Aids | To develop a comprehensive harmonised communication protocol for use by marine visual aids to navigation | New Guideline | ENG | ENG-6.3.1b | On track |  |
| S1070 Information Services | S1070.1 Data models and data encoding | VTS 2.8.4 Review and update Recommendation R0145 (V-145) on the Inter-VTS Exchange Format (IVEF) Service |  |  | VTS   ARM\*   ENG   DTEC | VTS-2.8.4   ARM\*-1.4.3   ENG-1.4.1   DTEC-1.4.2 | Not started |  |
|  |  | DTEC 7.1.1 Develop a discussion paper on digitalisation in the scope of IALA | Development of a vision for digitalization of shipping and maritime transportation - Document sketching the IALA vision on digitalization of waterways and shipping | Discussion paper | DTEC\* | DTEC\*-7.1.1 | Not started |  |
|  |  | ARM 7.1.1 Develop guidance on Digital Fairway |  | New IALA guideline on implementing the development and implementation of digital fairways. | ARM | ARM-7.1.1 | Not started |  |
|  |  | ENG 7.1.1 Development of and update of PNT related S-200 product specifications | Review and maintain of the S-240 series product specifications | New and updated S-2xx specifications | ENG\* | ENG\*-7.1.1 | On track |  |
|  |  | ARM 7.1.10 Monitor the development of S-201 Testbed | Update reports on S-201 testbed | Input paper on the monitoring results of S-201 testbed | ARM\* | ARM\*-7.1.10 | Not started |  |
|  |  | ARM 7.1.11 Develop, implement and execute procedures for IALA to add, maintain and harmonize items to the IHO S-100 feature concept dictionary(FCD). |  | FCD populated by IALA features and definitions. Reduced ambiguity between definition in the IALA Domains | ARM\* | ARM\*-7.1.11 | Not started |  |
|  |  | ARM 7.1.12 Create S-200 Implementation Plan, following similar S-100 Implementation Strategy and/or Roadmap |  | S-200 Implementation Strategy Document | ARM\* | ARM\*-7.1.12 | Not started |  |
|  |  | ARM 7.1.15 G1159 Ship Reporting from a Shore-based PerspectiveEdition 2.0 |  | Coastal States use the Guideline to simplify compliance with the amendment of the FAL Convention on Maritime Simple Windows | ARM\* | ARM\*-7.1.13 | Not started |  |
|  |  | ARM 7.1.2 Contribute to the standardization efforts with respect of the requirements of the S-100 domain experts |  | Contribution to other International organisations | ARM\*   DTEC | ARM\*-7.1.2   DTEC-7.2.1 | Not started |  |
|  |  | DTEC 7.1.2 Develop guidance on Digital Fairway | Develop a guideline on the developments and implementation of the digital fairway. Reference G1058 and G1097. | New IALA guideline | DTEC\* | DTEC\*-7.1.2 | Not started |  |
|  |  | ARM 7.1.3 New Guideline on Operational considerations for S-200 (S-201 AtoN information and S-230 Application Specific Messages) | Guideline on Operational considerations for S-200 | Guideline | ARM\* | ARM\*-7.1.3 | Not started |  |
|  |  | DTEC 7.1.3 Review G1114 A Technical Specification for the Common Shore-based System Architecture (CSSA) | Consider developing a System Architecture Concept for Digitalized Waterways and Maritime Transformation: Architecture Pattern, Architecture Overview, Architecture Details / Platforms / Services | Revised Guideline | DTEC\* | DTEC\*-7.1.3 | Not started |  |
|  |  | ARM 7.1.4 Continue development on S-201, specifically on Maintenance, data validation, and harmonization with S-125, S-124, and S-101 |  | S-201 ed. 2.0 and beyond | ARM\* | ARM\*-7.1.4 | Not started |  |
|  |  | DTEC 7.1.4 Consider developing a Recommendation for digital platforms | Recommendation on platforms to be used for implementation of the proposed Architecture (G1114 Update): Definition of the architecture based on Updated G1114, Description of platform elements | New Recommendation | DTEC\* | DTEC\*-7.1.4 | Finished |  |
|  |  | ARM 7.1.6 Continue development on S-125 in coordination with IHO NIPWG |  | S-125 ed. 1.0 and beyond | ARM\* | ARM\*-7.1.6 | Not started |  |
|  |  | ARM 7.1.7 Continue development on MRN documentation, considering inputs from IALA Secretariat, other committees, or others as needed |  | Updated MRN documentation (Guidelines and Recommendation) | ARM\* | ARM\*-7.1.7 | Not started |  |
|  |  | ARM 7.1.8 Maintenance on Guideline 1106 on producing an IALA S-200 series Product Specification |  | IALA members can develop S-200 series product specifications | ARM\* | ARM\*-7.1.8 | Not started |  |
|  |  | ARM 7.1.9 Coordinate Committee support and submissions for IALA representation at IHO working groups in cooperation with Secretariat (HSSC, S-100WG, NIPWG) | IHO coordination including IALA submission to HSSC on the requirement to amend S-101 AtoN portrayal. |  | ARM\*   DTEC | ARM\*-7.1.9   DTEC-7.2.2 | Not started |  |
|  |  | DTEC 7.2.1 Contribute to the standardization efforts with respect of the requirements of the S-100 domain experts |  |  | DTEC   ARM\* | DTEC-7.2.1   ARM\*-7.1.2 | Not started |  |
|  |  | DTEC 7.2.2 Coordinate Committee support and submissions for IALA representation at IHO working groups in cooperation with Secretariat (HSSC, S-100WG, NIPWG) |  |  | DTEC   ARM\* | DTEC-7.2.2   ARM\*-7.1.9 | Not started |  |
|  | S1070.2 Data exchange systems | ENG 1.2.1 Consider developing guidance on the certification of technical equipment, information systems and technical infrastructure related to MASS in the domain of IALA | Develop a guideline on the certification of technical MASS equipment, information systems, and technical infrastructure within the domain of IALA. |  | ENG   DTEC\*   ARM   VTS | ENG-1.2.1   DTEC\*-1.1.1   ARM-1.1.2   VTS-2.8.3 | Not started |  |
|  |  | ARM 7.1.14 Development of technical service specifications for the provision of AtoN information |  | A number of technical service specifications - ready for implementation by solution providers | ARM\* | ARM\*-7.1.14 | Not started |  |
|  |  | DTEC 7.1.5 Review G1128 Specification of e-Navigation technical services | Revise the Guideline from basic concepts and guideline for developers on technical services adjusted to the digital platform concepts. Reference G1155. | Review G1128 | DTEC\* | DTEC\*-7.1.5 | Not started |  |
|  |  | ARM 7.1.5 Develop or amend guideline in support of S-100 Implementation Plan |  | New or Revised Guideline in support of S-100 Implementation Plan | ARM\* | ARM\*-7.1.5 | Not started |  |
|  | S1070.3 Terminology, symboly and portrayal | ARM 7.1.13 Develop guidance on the symbology and portrayal of AtoN for charting |  |  | ARM\*   VTS | ARM\*-7.1.13   VTS-2.8.8 | Not started |  |
|  |  | VTS V2.8.8 Develop guidance on the symbology and portrayal of AtoN for charting |  |  | VTS   ARM\* | VTS-2.8.8   ARM\*-7.1.13 | Not started |  |
| No Standards | No Standards | VTS 1.9.1 Consider updating G1111-1 to include guidance on VTS Management Information Systems Consider relevant VTS documents to be revised /updated | Revise and update VTS recommendations, guidelines, and model courses | Revised VTS documents | VTS   VTS   VTS | VTS-1.9.1   VTS-2.9.1   VTS-3.9.1 | Not started |  |
|  |  | VTS 1.9.3 Review the VTS questionnaire and conduct a digital global survey | Revise the questions on VTS to be aligned with the new IMO resolution and conduct global VTS surveys whenever needed. | Input to VTS tasks and guidelines | VTS\* | VTS\*-1.9.3 | Not started |  |
|  |  | VTS 1.9.4 Proceed with the "living document" on "Future VTS", including emerging technologies and Human Element | Continue discussion on Future VTS, including emerging technologies and Human Element to provide information to assist with future work programme tasks and of emerging trends and technologies that will impact on VTS | Input to VTS tasks and guidelines | VTS\* | VTS\*-1.9.4 | Not started |  |
|  |  | VTS 2.9.1 Consider relevant VTS documents to be revised /updated | Revise and update VTS recommendations, guidelines, and model courses | Revised VTS documents | VTS   VTS   VTS | VTS-2.9.1   VTS-1.9.1   VTS-3.9.1 | Not started |  |
|  |  | ENG 8.1.1 PNT technology review | Monitor other 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. |  | ENG | ENG-8.1.1 | On track |  |
|  |  | ENG 8.1.2 Review relevant sections of the NAVGUIDE |  |  | ENG   ARM\*   VTS | ENG-8.1.2   ARM\*-1.2.9   VTS-1.8.2 | Not started |  |
|  |  | DTEC-6.3.14 | Continue the work of the MarCom manual |  | DTEC |  |  |  |
|  |  | DTEC-XXXX | MCP task |  |  |  |  |  |