**Liaison note to IMO Correspondence Group**

**on**

**e-navigation roadmap & key dates**

**ANNEX B**

**A Roadmap for e-Navigation**

Electronic Charts for other vessels

Standard default settings, save/recall settings, S-mode and define resiliency for INS/BES

Develop Concepts for default settings / S-Mode

Bridge Equip

**ECDIS Implementation (to 10,000 Ton)**

eNav INS/BES Availability

WRC

2018

2020

2018

2016

2014

2012

**VDES development / implementation**

**Modernization of GMDSS**

**Identification/development other communications methods/systems/applications  
for e-navigation**

**Other e-navigation communication**

**AIS development / implementation**

Single window implementation

Shore based Single window development

MSP Applications

Develop MSP

WRC 2018

IALA   
Conference

PNT

**WRC**

Review of Legacy Systems (LRIT, Paper Charts, NAVTEX, etc..)

Develop eNav Implementation Strategy

Review of Regulatory Process

Review of Competency and training

**IALA**

**IMO**

MSP

CMDS

Comms

Implement integrated PNT including WWRNS, resiliency and multi-system receiver

Develop integrated PNT including WWRNS, resiliency and multi-system receiver.

Development of IHO Registry Applications

Implementation of IHO Registry Applications

Develop Applications for standard reporting

Applications for standard reporting

**GMDSS Review**

WRC 2015

MSC 94

MSC 92

MSC 90

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**Key Dates for e-Navigation Implementation**

|  |  |  |  |
| --- | --- | --- | --- |
| **Note** | **Date** | **Meeting** | **Comments** |
|  | **2012** |  |  |
|  | 1 Jan 2012 |  | ECDIS training in STCW 2012 |
|  | May 2012 | MSC 90 | Formation of Harmonized Group on Data Modelling (HGDM)  MSC decision on GMDSS Review |
|  | 1 July 2012 |  | ECDIS carriage requirement starts |
|  | July 2012 | IMO NAV 58 | Expected acceptance of Gap Analysis and commencement of FSA. |
|  | Sept 2012 | IALA e-NAV 12 | Look at practical solutions, risk analysis and MSP. |
|  | **2013** |  |  |
|  | Jan 2013 | e-Navigation Underway Conference. |  |
|  | March 2013 | IALA e-NAV13 |  |
|  | May 2013 | MSC 92 |  |
|  |  |  |  |
|  | Sept 2013 | IMO NAV 59 | Finalize e-NAV SIP for submission to  MSC 93 (2014) for information |
|  | Sept 2013 | IALA e-NAV14 |  |
|  | **2014** |  |  |
|  | Feb 2014 | HTW1 | Replaces STW. Feedback and comments re human element and training issues for e-NAV |
|  | May 2014 | IALA Conference |  |
|  | May 2014 | Deadline for WRC 2015 | Proposals for spectrum allocation |
|  | May 2014 | MSC 93 | Consideration of e-Nav ISWG |
|  | June-July 2014 | NCSR1 | Combines and replaces NAV and COMSAR (No e-NAV WG) |
|  | Sept 2014 | IALA e-NAV 15 |  |
|  | TBC | e-NAV ISWG | Finalize e-NAV SIP to MSC 94 for approval |
|  | November 2014 | MSC 94 | Expected approval of the e-Navigation Strategic Implementation Plan (SIP) |
|  | **2015 +** |  |  |
|  | Nov 2015 | WRC 2015 | Spectrum Allocation for VDES |
|  | May 2017 | Deadline for WRC 2018 |  |
|  | July 2018 | ECDIS Fully Implemented |  |
|  | Oct 2018 | WRC 2018 | GMDSS and e-NAV |