

**IHB File No. S3/8151/UPD**

<p><b>CIRCULAR LETTER No. 15/1999</b> <b>24 March 1999</b></p>
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**WORKSHOP ON ENC UPDATING**  
**Mobile, Alabama, USA, 3-4 May 1999**

Reference: IHB Circular Letter No. 9/1999 of 19 February 1999

Dear Sir,

In response to CL. 9/1999, announcing the IHB's intention to organize a Workshop on ENC Updating in Mobile, Alabama, USA, on 3-4 May 1999, in conjunction with the 1999 U.S. Hydrographic Conference (26-28 April), replies have been received from the following Member States, all of them supportive of the IHB's initiative: Australia, Brazil, Canada, Chile, Cuba, France, Germany, India, Italy, Malaysia, Netherlands, New Zealand, Norway, Singapore, Spain, Turkey, UK and USA.

We therefore confirm that the Workshop will be held on the dates given above. Unfortunately, some Member States cannot be represented due to the very short notice or budget constraints. Several commercial firms have also indicated their interest in participating in the Workshop. As a result, a provisional list of participants has been prepared (Doc. ENCUPD/1B), a copy of which is attached. The announcement of the Workshop has also been made on the IHO WEB Site. Those who do not appear on the list and who intend to participate are urged to register with the IHB, as soon as possible. A meeting room for 50 attendees has been reserved at the Adams Mark Hotel, Mobile.

CL 9/1999 asked for items to be discussed at the Workshop and a summary of suggested topics is given in Annex A. A provisional agenda for the Workshop has been drafted at the IHB, based on this list (Doc. ENCUPD/2A), a copy of which is attached hereto. The IHB would welcome any suggestions to amend/improve this draft agenda. The main objectives of the Workshop are:

- 1) to identify any problems arising from the implementation of IHO specifications related to ENC updating, as contained in S-57 Edition 3.0 and S-52 Appendix 1, 3<sup>rd</sup> edition, and
- 2) to agree on procedures for the timely dissemination of ENC updates, further addressing issues like pricing, encryption, legal status and harmonization with paper charts.

The creation of sub-working groups to consider specific items on the first day is suggested. It would then be possible to discuss their findings and recommendations in greater detail on the second day.

It is anticipated that the Workshop will result in recommendations to amend S-57 and S-52 Appendix 1.

In order to assist the IHB in preparing the Workshop, we would welcome any papers dealing with the subject of ENC Updating, either from HOs or commercial firms. These documents will be distributed to attendees before the Workshop, and it is therefore essential that these papers reach the IHB as soon as possible.

Finally, the Bureau wishes to thank the USA-NOAA for their valuable assistance in organizing the Workshop.

On behalf of the Directing Committee,  
Yours faithfully,

Rear Admiral Neil GUY  
Director

Encls.: - Suggested topics for discussion (Annex A)  
- Provisional list of participants (Doc. ENCUPD/1B)  
- Provisional agenda (Doc. ENCUPD/2A).

**IHO WORKSHOP ON ENC UPDATING**  
(Replies to CL. 9/1999)

Suggested Topics for Discussion	Agenda Item
Future ENC updating procedures, as compared to the paper chart regime. (NtM, Corrected Reprints, New Editions, ...) (J.G. FERWERDA, Netherlands).	4
Appropriateness of establishing an international system of updates, e.g. an INT Notices to Mariners System. (J.G. FERWERDA, Netherlands).	
Synchronizing updates and new editions for ENC and paper charts. (J.G. FERWERDA, Netherlands)	8.2
How the ENC Product Specification deals with updates at a functional level. (C. DRINKWATER, UK).	7.1
Type of update service that Hydrographic Offices intend to provide, including distribution media options. (C. DRINKWATER, UK)	8.1
Coordination of paper and digital updates. (C. DRINKWATER, UK)	8.2
Legal status of digital updates from a SOLAS perspective. (C. DRINKWATER, UK)	9.1
Requirements of S-52 Appendix 1 and their current relevance and validity. (C. DRINKWATER, UK)	7.2
New requirements of S-52 Appendix 1, arising from HOs producing ENCs from source data as opposed to paper charts. (C. DRINKWATER, UK)	7.4
Provision of updating service. (R. SANDVIK, Norway - ECC).	8.1
Need for harmonization between release of NtM and digital updates. (R. SANDVIK, Norway - ECC).	8.2
Production and quality control of update messages. (R. SANDVIK, Norway - ECC).	7.3
NtM in relation to production of ER. (P. JAKOBSEN, Norway - NHS).	8.2
Packaging of update messages: one or several updates in a data set? (P. JAKOBSEN, Norway - NHS).	8.1
Mechanism of new edition of ENC, as defined in S-52 Appendix 1. Co-existence of two editions of same ENC cell within some time periods, with the need to update both of them. (P. JAKOBSEN, Norway - NHS)	7.2
New edition of ENC in relation to reprint of paper chart. (P. JAKOBSEN, Norway - NHS).	8.2
Consistency of ENC data set contents. (Dr. Satya PRAKASH SHARMA, India).	7.3
Most suitable media by which the updates can be transmitted. (H. YÜCE, Turkey).	8.1
Encryption mechanism for update messages. (H. YÜCE, Turkey).	8.4
Interoperability of the update message and various types of ECDIS, in order to apply properly the encrypted update messages in S-57. (H. YÜCE, Turkey).	9.2
RENC's role through all the process of updating. (H. YÜCE, Turkey).	8.1
Mechanism of charging customers who are interested in receiving updates to their ENC's. (H. YÜCE, Turkey).	8.5
Security measures to prevent the HO's responsibilities of the corrupted or pirate data (H. YÜCE, Turkey).	8.4
Requirement in S-52 Appendix 1 for 4-6 weeks prior notification of a new edition of an ENC cell, and provision of updates for both old and new editions for 4-6 weeks. (M. BROWN, USA - NOAA).	7.2

<b>Suggested Topics for Discussion</b>	<b>Agenda Item</b>
Assessment of proposed ways of dissemination of updates, their impact on ENC pricing and their relationship to ENC security schemes. (G. BÜTTGENBACH, SevenCs, Germany).	8.3

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**ABRIDGED AGENDA**

1. Opening and administrative arrangements.
2. Approval of the Agenda.
3. Presentations by commercial firms invited to report on their experience of ENC updating.
4. Future ENC updating procedures, as compared to the paper chart regime.
5. Appointment of technical sub-working groups.
6. Report back of sub-working groups.
7. Production of ENC updates.
  - 7.1. How the ENC Product Specification deals with updates at a functional level.
  - 7.2. Requirements of S-52 Appendix 1 and their current relevance and validity.
  - 7.3. Production and quality control of update messages. Consistency of dataset contents.
  - 7.4. New updating requirements arising from HOs producing ENC's from source data as opposed to paper charts.
8. Dissemination of ENC updates.
  - 8.1. Type of update service that HOs intend to provide, including packaging and distribution media options. RENC's role through all the process of updating.
  - 8.2. Coordination of updates / new editions for ENC's and paper charts.
  - 8.3. Assessment of proposed ways of dissemination of updates, their impact on ENC pricing and their relationship to ENC security schemes.
  - 8.4. Encryption mechanism for update messages. Impact on data corruption and piracy.
  - 8.5. Mechanism of charging customers of ENC updates.

9. Implementation of ENC updates.
  - 9.1. Legal status of digital updates from a SOLAS perspective.
  - 9.2. Impact of data encryption on interoperability of the update message and various types of ECDIS.
10. Conclusions.