

Proposed Draft Questionnaire on HD ENC^s

(version 0.3 dated 12 April 2021)

Background Information

1. IRCC-11 (June 2019) tasked the WENDWG to issue a questionnaire to capture the status and plans of users/producers of High Density ENC^s and report back to IRCC (IRCC11/04 refers).
2. Following IRCC-11, the WENDWG considered this task but noted that the approved definition of HD ENC^s was not available yet. This task was postponed.
3. In January 2020, Edition 1.0.0 of HD ENC Production and Maintenance Guidance was issued as Annex A to S-65 - *ENCs: Production, Maintenance and Distribution Guidance*.
4. In 2020, the WENDWG put this task on hold for two main reasons:
 - a. Objectives of the questionnaire needed to be clarified;
 - b. Due to the pandemic, priorities were given to the development of WEND-100 Principles.
5. At WENDWG-11 (February 2021), the WENDWG noted the report of IC-ENC on HD ENC^s and agreed on the value to make a survey towards Member States on their HD ENC^s Production Plans. A proposal to IRCC-13 to set up a survey is required. This survey should also address the possible impact of S-102 emerging production plans on the future of HD ENC^s (Action WENDWG11/03 refers).

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Objectives, Target and Timelines

Objectives of the survey:

- To assess IHO Member States' intentions on the production plans of HD ENC^s in their areas of responsibilities (national level, or as primary charting authority).
- To assess the production techniques, timeliness dataflow and arrangements with port authorities.
- To identify issues faced by the producers: production and distribution chain, quality control, consistency with other nautical products (ENC^s, ENC coverage nautical publications...).
- To share harmonization/best practices processes.
- To question HD ENC^s Producers on their intentions once S-102 becomes more and more operational.
- Target: IHO Member States¹. Information: RENCs/RECC.
- Survey to be managed by the WENDWG on behalf of IRCC. Procedure: Email from IHO Secretariat, using *formstack* procedure. Noting IRCC-13 meeting in June 2021, final version of the questionnaire including IRCC13 amendments available in July 2021. Survey from August 2021 to end of October 2021. Outcome to be made

¹ In accordance with P-5.

available on the WENDWG webpage (open access). Report/discussion at WENDWG-12. Then conclusions at IRCC14.

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Questions²

Q1 Are you aware of the publication of Edition 1.0.0 of Annex A to S-65 (HD ENC)s?

Yes No

Comment:.....

Q2 Since the publication of Edition 1.0.0 of Annex A to S-65 (HD ENC)s, do you plan to or do you produce specific HD ENC)s, or did you produce HD-like ENC)s even before Annex A was available?

Yes No

If yes, please explain production basic strategy in few words and use cases you are aware of:.....

Q2.1 If you don't produce specific HD ENC)s, does it mean that HD-type information is incorporated into existing regular ENC cells?

Yes No

Comment:.....

Q2.2 Do you plan to adopt a systematic coverage of specific areas?

Yes No

What are these specific areas?

- a. Main ports
- b. Channels and waterways
- c. Others

Comment:.....

Q2.3 How do you determine where HD ENC)s will add value to users?

- a. customer feedback
- b. port recommendation
- c. analysis of traffic patterns and depth constraints
- d. other

Q3 In your country, who is the organization responsible for the production of HD ENC)s?

² Outcome of this survey will be made publicly available.

Q3.1 The Hydrographic Office?

Yes No

Q3.2 Port authority(ies) (or equivalent)?

Yes No

Comment:.....

Q3.3 Both

Yes No

Comment:.....

Q4 When the Hydrographic Office is not the official producer of the HD ENC's, is there any delegation of production responsibilities to the port authority (or equivalent)?

Yes No

Comment:.....

Q4.1 do you use the national S-62 producer code for these HD ENC's?

Yes No

Comment:.....

Q4.2 or does the port authority use its own agency S-62 producer code?

Yes No

Comment:.....

Q5 What is the update regime of your HD ENC's? Is it driven by the update regime of the surveys? Impact on quality control? Impact on the distribution chain? (RENC, etc.)? Impact on the other usage bands?

Comment:.....

Q5.1 Periodic updates (weekly?)

Yes No

Comment:.....

Q5.2 Non periodic, depends on new survey data

Yes No

Comment:.....

Q5.3 Average time between two HD ENC's editions

Comment:.....

Q5.3.1 Depend on the variability of the area?

Yes No

Comment:.....

Q5.3.2 Depend on the last survey order?

Yes No

Comment:.....

Q5.3.3 Do you maintain other ENC's (usage band 5 for instance, produced by HO's) using data from new HD ENC's? Even when the production chain is shared with other authorities?

Yes No

Comment:.....

Q6 In critical areas where HD ENC's are produced...

Q6.1 what is the average time between two surveys?

1 week? 2 weeks? 1 month? 2 months?

Comment:.....

Q6.2 how are the survey aiming to provide data to HD ENC's processed/validated?

automatically? Semi-automated? Manual?

Comment:.....

Q6.3 what is the average time between the outcome of a new survey and the availability on the bridge of your HD ENC?

1 week? 2 weeks? 1 month? 2 months?

Comment:.....

Q7 Are you aware of the availability of Edition 2.0.0 of S-102 Product Specification - *Bathymetric Surface*?

Yes No

Comment:.....

Q8 Are you aware of specific requirements by Port State Control authorities?

Q8.1 for these HD ENC's?

Yes No

Comment:.....

Q8.2 or for S-102 products when they start to become available?

Yes No

Comment:.....

Q8.3 In your opinion, what are the advantages and drawbacks if any, of a HD ENC compared to a non HD S-101 ENC coupled with S-102 product?

Comment:.....

Q9 Is it your intention to start the regular production of S-102 products in some areas in your country?

Yes No

Comment:.....

Q10 If you intend to produce S-102 products, do you intend to adapt or withdraw your HD ENC's, if you are producing them?

Yes No

Comment:.....

Q11 Once S-101 becomes operational and S-100 ECDIS become available, do you envisage to "convert" your existing HD ENC's

Q11.1 to new S-101 [HD-like] ENC's?

Yes No

Comment:.....

Q11.2 to S-102 products only?

Yes No

Comment:.....

Q11.3 or do you envisage to maintain both HD ENC's and S-102 products?

Yes No

Comment:.....

Q12 Based on your experience (HD ENC's, S-102 test data sets), what are the top 3 recommendations you would like to share with the IHO Member States willing to start their production of HD ENC's?

Comment:.....

Q13 Based on your experience (HD ENC's, S-102 test data sets), what are the top 3 recommendations you would like to share with the IHO Member States willing to start their production of S-102 products?

Comment:.....