15th CHRIS MEETING

IHB, Monaco, 10-13 June 2003

	Issue 5
For IEC use only	
	2003-02-20

INTERNATIONAL ELECTROTECHNICAL COMMISSION

TECHNICAL COMMITTEE No 80: Maritime navigation and radiocommunication equipment and systems

WORKING GROUP № 13: Presentation of navigation related information

Working Paper for the meeting
to be held at the Bundesamt Für Seeschiffahrt und Hydrographie (BSH) in Hamburg, Germany
from 18th to 20th February 2003.

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Title: **Draft Input Paper to NAV 49 accompanying the Draft IMO PS**

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SUB-COMMITTEE ON SAFETY OF
NAVIGATION
49th session
Agenda item 4

NAV 49/?/?
19 February 2003
Original: ENGLISH

Requirements for the display and use of AIS information on shipborne navigational displays

Harmonization of Terms and Symbols used to Present Navigation Related Information

Submitted by the International Electrotechnical Commission (IEC)

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<tr><td colspan="2" align="center">**SUMMARY**</td></tr>
<tr><td>*Executive summary:*</td><td>Report on progress within the IEC on standards for the presentation of navigational information.</td></tr>
<tr><td>*Action to be taken:*</td><td>Paragraph 6</td></tr>
<tr><td>*Related documents:*</td><td>Report of the forty-eighth session of the Sub-Committee on Safety of Navigation (NAV 48/19) paragraphs 4.23 through, 4.26</td></tr>
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1.   The Sub-Committee on Safety of Navigation at its forty-seventh session invited IEC to set up a Working Group to develop a standard for the presentation of navigational information, being of the opinion that this standard should harmonize the following:

.1   display and interaction objects;

.2   multifunction displays;

.3   co-location, merging, processing, fusion of graphical information; and

.4   indication of quantity, status, integrity and accuracy of information.

2.   This paper reports on the progress made to harmonise terms and symbols, and other presentation characteristics which should be used uniformly by all navigation equipment installed on the bridge of a ship.

3.   Attached are draft annexes to the proposed IEC standard 62288:

Annex A   Terms and numerical quantities presented on the display

Annex B   Symbols presented on the display

4.   These annexes are a compilation and harmonisation of presentation related objects, and support the draft recommendation on performance standards for the Presentation of Navigation Related Information.

5. The approach taken to harmonize the symbols has been to:
    - base the work on existing symbology currently in use
    - make minimum changes to existing symbols
    - modify or introduce additional symbols only when needed
    - organize the symbols into logical groups with a common base symbol
    - keep the total number of different symbols as small as possible
    - use as few colours as possible (most symbols should be useable in B&W displays)
    - make use of colours specified by IHO for ECDIS
    - design coding by shape or outline rather than colour alone
    - strive for consistency between symbol types

Action requested of the Sub-Committee

6.   The Sub-Committee is invited to comment on the IEC compilation and provide any guidance as appropriate.