

RESOLUTION MSC.452(99) (adopted on 24 May 2018)  
AMENDMENTS TO THE REVISED PERFORMANCE STANDARDS FOR  
INTEGRATED NAVIGATION SYSTEMS (INS) (RESOLUTION MSC.252(83))

**ANNEX 20**

**RESOLUTION MSC.452(99)  
(adopted on 24 May 2018)**

**AMENDMENTS TO THE REVISED PERFORMANCE STANDARDS FOR  
INTEGRATED NAVIGATION SYSTEMS (INS) (RESOLUTION MSC.252(83))**

THE MARITIME SAFETY COMMITTEE,

RECALLING Article 28(b) of the Convention on the International Maritime Organization concerning the functions of the Committee,

RECALLING ALSO resolution A.886(21) on *Procedure for the adoption of, and amendments to, performance standards and technical specifications*, by which the Assembly resolved that the function of adopting performance standards and technical specifications, as well as amendments thereto, shall be performed by the Maritime Safety Committee,

HAVING CONSIDERED, at its ninety-ninth session, the recommendation made by the Sub-Committee on Navigation, Communications and Search and Rescue, at its fifth session,

1 ADOPTS amendments to the *Revised Performance standards for integrated navigation systems (INS)* (resolution MSC.252(83)), set out in the annex to the present resolution;

2 RECOMMENDS Governments to ensure that INS equipment installed on or after 1 July 2020 conforms to performance standards not inferior to those set out in the annex to resolution MSC.252(83), as amended by the annex to the present resolution.

ANNEX

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**3 Application of these performance standards**

1 In paragraph 3.5, insert the following at the end of table 2:

"

Allow for accepting the INS in compliance with as	INS in compliance with	
	Tasks and functions (Para of this standard)	Applicable modules of specific equipment standards as specified in the appendices of the document
...	...	...
NAVTEX or other IMO-recognized equipment accommodating other providers of GMDSS terrestrially-based services	Meteorological warnings (7.2.3) Navigation and SAR warnings (7.3.2) Ice warnings (7.3.2)	MSC.148(77)
Recognized mobile satellite service enhanced group calling system	Meteorological warnings (7.2.3) Navigation and SAR warnings (7.3.2) Ice warnings (7.3.2)	A.807(19), as amended by MSC.68(68), annex 4 and MSC.306(87)

"

**7 Task and functional requirements for an INS**

2 In paragraph 7.3.2, insert the following after the bullet point " • AIS reports of AtoNs,":

- "
- Coastal and NAVAREA navigational warnings,
  - search and rescue (SAR) warnings,
  - Coastal and METAREA meteorological warnings,
  - ice warnings,
  - Maritime Safety Information overlay functions,"

3 In paragraph 7.3.3, replace bullet points with the following:

- "
- tracked radar targets and AIS targets
  - AIS binary and safety-related messages
  - initiation and monitoring of man-overboard and SAR manoeuvres (search and rescue and man-overboard modes)
  - tidal and current data
  - weather data
  - ice data, and
  - the operator may appropriately filter the display of Maritime Safety Information messages."

- 4 In paragraph 7.5.2.1, replace the last bullet point with the following:
- safety related messages: e.g. AIS safety-related and binary messages, Maritime Safety Information messages."
- 5 In paragraph 7.7.1, replace the fourth bullet point with the following:
- presentation of received safety related messages, such as AIS safety-related and binary messages, Application Specific Messages (ASM), Maritime Safety Information messages"

## Appendix 1

### DEFINITIONS

- 6 Replace the definition of "External safety related messages" with the following:

**External safety related messages** Data received from outside of the ship concerning the safety of navigation, through equipment listed in SOLAS chapter V and/or Maritime Safety Information messages.

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