

Subject:

**Application of Chapters III and IV of 1988
Amendments to the SOLAS 1974 concerning
Radio communications for GMDSS, for
ships flying flags of other than Japanese**

NK TECHNICAL INFORMATION

No. 1 0 2

Date: 27 January 1992

To Shipowners and Shipbuilders concerned.

As the 1988 Amendments to the 1974 SOLAS will come into force 1 February 1992, The amendments will be applied to all passenger ships and all cargo ships more than 300 GT intended for international voyage.

And the amendments cover the complete revision of Chapter IV (Radio communications) and part revisions of Chapters I, II-1, III and V.

For your reference, new installation or replacement radio equipment which is required in accordance with the application of the revised Chapters III and IV are informed in the attachment.

For further information, please contact to Equipment Department of Head office.

Attachment.



1. APPLICATION SCHEDULE OF CHAPTERS III AND IV OF 1988 Amendments to the 1974 SOLAS CONCERNING GMDSS

(For ships constructed⁽¹⁾ before 1 February 1992.)

<u>Equipment</u>	<u>To be installed by</u>
Two-way VHF radiotelephone apparatus	: 1 February 1995
Radar transponder	: 1 February 1995
NAVTEX receiver	: 1 August 1993
Satellite EPIRB	: 1 August 1993
Rest of required equipment	: 1 February 1999 ⁽²⁾

(For ships constructed⁽¹⁾ on and after 1 February 1992 but before 1 August 1993.)

<u>Equipment</u>	<u>To be installed by</u>
Two-way VHF radiotelephone apparatus	: 1 February 1992, no grace period granted.
Radar transponder	: 1 February 1992, no grace period granted.
NAVTEX receiver	: 1 August 1993
Satellite EPIRB	: 1 August 1993
Rest of required equipment	: 1 February 1999 ⁽²⁾

(For ships constructed⁽¹⁾ on and after 1 August 1993 but before 1 February 1995.)

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NAVTEX receiver	: 1 August 1993, no grace period granted.
Satellite EPIRB	: 1 August 1993, no grace period granted.
Rest of required equipment	: 1 February 1999 ⁽²⁾

(For ships constructed⁽¹⁾ on and after 1 February 1995.)

All equipment specified in Chapters III and IV : To be installed by 1 February 1995,
no grace period granted.

Note:(1) "Ships constructed" means ships the keel of which are laid or which are at a similar stage of construction (construction recognized as having began began and assembly of that ship has reached at least 50 tons or 1 % of the the estimated mass of all structural material, whichever is less.)

(2) To be complied with all applicable requirements of Chapter IV of 83 Amendments SOLAS in force prior to 1 February 1992 until every requirement of 88 Amendments Chapter IV is complied.

2. SUMMARY OF EQUIPMENT AND NUMBER OF REQUIREMENTS of Chapters III and IV of 1988 Amendments to the 1974 SOLAS for GMDSS

(1) All equipment for GMDSS is to be a typeapproved by the administrations.

(2) Two-way VHF radiotelephone apparatus to be provided for on-scene communication between survival crafts and ship,

for Cargo ships 300GT and upwards but less than 500GT 2 sets

for Passenger ships and cargo ships 500GT and upwards 3 sets

Note: Two-way radiotelephone installed prior to 1 February 1992 in accordance with 83 Amends SOLAS capable of operating on more than 2 channels including channel 16 in VHF band may be accepted by the administrations until 1 February 1999.

(3) Radar transponder to be rapidly placed in any survival crafts or stowed i each survival craft, (Requirement of Chapter III of 1988 Amendments)

for Cargo ships 300GT and upwards but less than 500GT 1 set

for Passenger ships and cargo ships 500GT and upwards 1 set of each side of ship

Note: One of these radar transponders may be a radar transponder required by Chapter IV 7.1.3. of 1988 Amendments.

(4) NAVTEX receiver capable of receiving international NAVTEX service,

for Every ship 1 set

(5) Satellite emergency position-indicating radio beacon(Satellite EPIRB) to be Polar orbiting satellite service operating in the 406MHz band or INMARSAT geostationary satellite service operating in the 1.6 GHz band,

for Every ship 1 set

- (6) VHF radio installation capable of transmitting and receiving with DSC(Digital selective calling) on channel 70 and radiotelephony on channel 6, 13 and 16,

for Every ship

1 set

- (7) INMARSAT EGC(Enhanced group calling)system

required if the ship is engaged in voyages in any area of INMARSAT coverage but where an international NAVTEX service is not provided,

for Every ship

1 set

However, the ships which are engaged exclusively in voyages in areas where an HF direct-printing telegraphy maritime safety information service is provided and fitted with equipment capable of receiving such service, are exempted from the application of this requirement.

- (8) 2182kHz radiotelephone distress frequency watch receiver

- (9) 2182kHz radiotelephone alarm signal generating device

to be provided until 1 February 1999,

for Every ship

each 1 set

However, the ships constructed after 1 February 1997 are exempted from the application of this requirement.

3. CARRIAGE EQUIPMENT RELATIVE TO SEA AREA

Communication equipment which is required to be carried on board in each of their sea voyage area is as follows and listed in the following table.

Sea area A1 : within coverage of VHF coast station (approx. 30 nm)

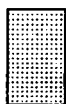
Sea area A2 : within coverage of MF coast station (approx. 150 nm)
excluding Sea area A1.

Sea area A3 : within coverage of INMARSAT excluding sea areas A1 and A2.

Sea area A4 : outside sea areas A1, A2 and A3

CARRIAGE EQUIPMENT RELATIVE TO SEA AREA

Chapt.	Communication Equipment & Function	Specification	Purpose	Voyage sea area			
				A1	A2	*1 A3	*2 A3/A4
IV	VHF radio transmission reception watching	DSC *3 ch.70 Radiotelephony ch.6,13&16	Distress alert Continuous watch general radio com.	0	0 *4	0 *4	0 *4
	MF radio transmission reception watching	DSC Radiotelephony Direct-printing telegraphy	Distress alert Continuous watch MSI *5 general radio com.		0	0	
	MF/HF radio transmission reception watching	DSC Radiotelephony Direct-printing telegraphy	Distress alert Continuous watch MSI general radio com.				0
	INMARSAT SES *6 transmission reception watching	Standard A or Standard C	Distress alert MSI general radio com.			0	
	NAVTEX receiver reception watching	518 kHz NAVTEX service area	MSI	0 *7	0 *7	0 *7	0 *7
	INMARSAT EGC reception watching	1.6 GHz except NAVTEX service area	MSI	0 *8	0 *8	0 *8	0 *8
	Satellite EPIRB transmission	COSPAS-SARSAT 406 MHz *9 INMARSAT 1.6 GHz *10	Distress alert	0 *11	0 *11	0 *11	0 *12
	VHF EPIRB transmission	DSC + Radar transponder	Distress alert	0 *13			
III	RADAR TRANSPONDER	for ship	Locating 1 set may be one of those for a survival craft				
	RADAR TRANSPONDER	for survival craft	Locating 300GT ≤ Cargo ship < 500GT 1 set 500GT ≤ Cargo ship & Every passenger ship 2 sets	0	0	0	0
IV	Two-way VHF radio transmission reception	ch.16 + at least 1ch.	On-scene com. 300GT ≤ Cargo ship < 500GT 2 sets 500GT ≤ Cargo ship & Every passenger ship 3 sets	0	0	0	0
	RADAR	9 GHz	Locating	0	0	0	0
IV	Radiotelephone distress frequency watch receiver	2182 kHz	Distress frequency watch	0 *14	0 *14	0 *14	0 *14
	Radiotelephone alarm signal generating device	2182 kHz	Distress alarm signal		0 *15	0 *15	0 *15



: Primary systems

- *1: If INMARSAT ship earth station is installed.
- *2: If MF/HF be installed in voyages within Sea area A3.
- *3: Digital Selective Calling means a technique using digital codes which enables a radio station to establish contact with, and transfer information to another station or group stations.
- *4: Ships which engaged in voyages exclusively beyond in Sea area A1 and constructed prior to 1 February 1997, may be exempted from the installation of DSC function and continuous watch on ch 70 provided ships maintain a continuous watch on ch 16.
- *5: Maritime Safety Information.
- *6: Ship Earth Station.
- *7: Not required if the ship engaged in voyages beyond the NAVTEX service area.
- *8: Not required if the ship engaged in voyages exclusively in the NAVTEX service area.
- *9: Float free type stowed at easily accesible position.
- *10: Ditto
- *11: COSPAS-SARSAT system or INMARSAT system.
- *12: COSPAS-SARSAT system if the ship is engaged in voyages in Sea area A4.
- *13: ch. 70 and 9 GHz float free type stowed at easily accesible position and may be installed in stead of Satellite EPIRB.
- *14: Until 1 February 1999 or until such other date as may be determined by the Maritime safety committe, every ship shall be fitted.
- *15: Until 1 Febraury 1999, every ship shall be fitted.

4. MAINTENANCE REQUIREMENTS

On ships which are engaged in voyages in sea area A1 and A2, the availability shall be ensured by using one of such methods as :

Duplication of equipment

Shore-based maintenance

At-sea electronic maintenance capability

Combination of the above

On ships which are engaged in voyages in sea area A3 and A4, the availability shall be ensured by using a combination of at least two methods such as:

Duplication of equipment

Shore-based maintenance

At-Sea electronic maintenance capability

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