Menu tree

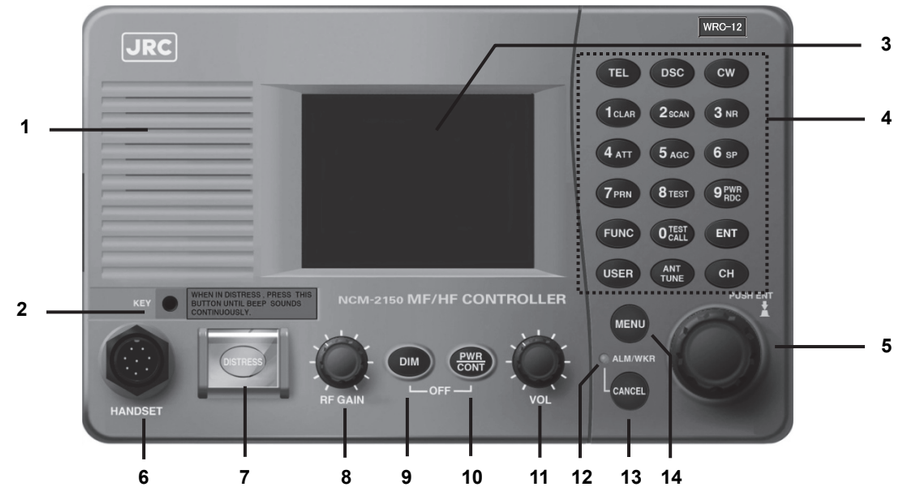
Main Menu	Hierarchical Menu 1	Hierarchical Menu 2	Shortcut Key	Note
1. DSC non-distress call			MENU+1(RTN) FUNC+0(Test)	
2. DSC drobose call			MENU+2	
3. Editing a distress msg			MENU+3	
4. DSC logs	4.1 Received distress	(Received message screen)		Printable
	4.2 Received others	(Received message screen)		Printable
	4.3 Transmitted calls	(Transmitted message screen)		Printable
5. Radio operation	5.1 User channel list (index)	5.1 User channel list (table)		Printable
	5.2 ITU channel list (index)	5.2 ITU channel list (table)		Printable
	5.3 Mode			
	5.4 Receiver	5.4.1 Auto gain control	FUNC+5	
		5.4.2 Noise reduction	FUNC+3	
		5.4.3 Attenuation	FUNC+4	
		5.4.4 Clarifier	FUNC+1	
		5.4.5 Squelch		
		5.4.6 CW bandwidth		
		5.4.7 Scan	FUNC+2	
	5.5 Transmitter	5.5.1 Power	FUNC+9	
		5.5.2 Tune power		
		5.5.3 Auto tune start		
	5.6 ITU CH of RR2012			
6. Maintenance	6.1 Self diagnosis	6.1.1 Transceiver ATU/PA/TRX/WKR MODEM	FUNC+8	Printable
		6.1.2 Controller/DTE		Printable
		6.1.3 Transceiver log		Printable
		6.1.4 Controller/DTE log		Printable
		6.1.5 DSC/NBDP loop		Printable
		6.1.6 Printout		
	6.2 Maintenance information	Maintenance INFO history	MENU+8	Printable
	6.3 Software version			Printable
	6.4 Frequency regulation			
	6.5 BAM alert list	BAM alert description	MENU+9	
7. Setup	7.1 Date & time	7.1.1 Date		
		7.1.2 Present time		
		7.1.3 Display form		
	7.2 POS/TIME	7.2.1 Own position		
		7.2.2 UTC of position		
		7.2.3 State display		
		7.2.4 Position source set		
	7.3 My controller	7.3.1 LCD adjustment 1. Contrast 2. Dimmer 3. Screen saver		
		7.3.2 Sound 1. Operation 2. Notification level 3. Sidetone	FUNC+6(SP)	
		7.3.3 User key assign		
		7.3.4 Tx meter		
		7.3.5 Data transfer		
		7.3.6 Menu shutdown		
		7.3.7 CH search ref		
		7.3.8 Frequency digits		
		7.3.9 Freq dial step		
	7.4 User channels (index)	7.4 User channels (table)		Printable
	7.5 DSC/WKR condition	7.5.1 Automatic ACK 1. Test call 2. Position RQ call 3. Polling call 4. Individual call		
		7.5.2 WKR scanning FRQ		
		7.5.3 DSC alert setting 1. Safety/Routine RX ALT 2. Distress RX ALT		
		7.5.4 Medical use		
		7.5.5 Neutral use		
		7.5.6 Group-ID		Printable
		7.5.7 Inactivity timeout 1. ACKed distress alert 2. RCVed other distress 3. Non-distress call 4. Other communications		
		7.5.8 DSC call list		Printable
		7.5.9 Auto FREQ change		
	7.6 Option	7.6.1 Connection		
		7.6.2 Data out		
		7.6.3 Baudrate		Printable
		7.6.4 Flow control		
		7.6.5 Print direction		

JSS-2150/2250/2500 (inc. suffix N)

MF/HF RADIO EQUIPMENT

Ship's name :

ID number (MMSI) :



1. **Internal loud speaker**
2. **Jack for telegraph in continuous wave (CW) mode**
3. **Black and white liquid crystal display unit**
4. **Numeric keypad (10-key) and function keys**

   In addition to entering numeric values, when combined with the FUNC key, the keys have the following functions.

   - TEL ··· Sets TEL mode with the last or default frequency.
   - DSC ··· Sets DSC mode with the last or default frequency.
   - CW ··· Sets CW mode with the last or default frequency.
   - 1CLAR ··· Displays the setting screen for the clarifier.
   - 2SCAN ··· Displays the scan menu.
   - 3NR ··· Displays the setting screen for noise reduction.
   - 4ATT ··· Displays the setting screen for attenuation.
   - 5AGC ··· Displays the setting screen for automatic gain control.
   - 6SP ··· Turns speaker on or off.
   - 7PRN ··· Prints the specified screen.
   - 8TEST ··· Displays the self-diagnosis menu.
   - 9 PWR RDC ··· Switches Tx power between high and low.
   - 0 TEST CALL ··· Displays the DSC test call menu.
   - FUNC ··· Enables 10-key functions or changes an active screen.
   - ENT ··· Enter key.
   - USER ··· User defined key.
   - ANT TUNE ··· Tunes the antenna.
   - CH ··· Sets the channel input mode (User/ITU ch or free frequency).
5. **Jog dial**
6. **Handset connector**
7. **DISTRESS key (Under a clear cover with spring)**
8. **RF GAIN control**
9. **DIM (Dimmer) key**
10. **PWR/CONT (Power/Contrast) key**
11. **VOL (Volume) control**
12. **ALM /WKR lamp**
13. **CANCEL key**
14. **MENU key**
15. **Handset and cradle**

1. Calling and communicating with the radiotelephone

To communicate with the radiotelephone mode, use the handset.

Making a radiotelephone call

1. Set the TX/RX frequency where the station called is monitoring.
2. Lift the handset from the cradle, then press the PTT key and make a call as described below.
   - Say the call sign or identification of the station called, not more than 3 times.
   - "this is"
   - Say own ship's call sign or identification, not more than 3 times.
   - "over"
3. Release the PTT key to listen.
4. Start communicating according to the response. When changing the frequency, make sure that no other stations are using the indicated working channel.
5. When terminating communications, say "out".

Receiving a call

1. Lift the handset from the cradle, then press the PTT key and respond to the call as described below.
   - Say the call sign or identification of the caller station, not more than three times.
   - "this is"
   - Say own ship's call sign or identification, not more than three times.
   - "over"
2. Release the PTT key to listen again to start communicating.
3. If requested or needed, switch to the working frequency.
4. When terminating communications, say "out".

2. Making a distress alert via the DSC

When in distress, make use of the dedicated red DISTRESS key to send a distress alert.

⚠ CAUTION

- DO NOT test a distress alert.
- When sending a distress alert, follow the instructions of the captain or the officer in charge.
- If a false distress alert is transmitted accidentally, select the Cancel menu and transmit the distress cancel referring the guidance displayed on the controller. And then report the false distress alert to a nearby RCC (Rescue Coordination Center/ in Japan, inform the nearest Japan Coast Guard.)
  Information to be reported:
  Ship's name, type, nationality, and ID number, the date/time, location and reason why the false distress alert was transmitted. Also the unit model name and manufacture number/date, if possible.

- A quick distress alert : To send a distress alert quickly, press DISTRESS key for 4 seconds. After receiving the acknowledgement, lift the handset and follow this procedure. "MAYDAY"/ "this is"/ the own ship's ID (MMSI)/ ship's position/ the nature of distress/ a rescue request and any other useful information
- A distress alert after editing : Holding down MENU, press 3. ➔ Enter the nature of distress and if required, enter the position and the time or the communication mode ➔ Press DISTRESS key for 4 seconds.

3. Making a non-distress call via the DSC

For a quick DSC routine individual call, operate the controller as shown below;

Holding down MENU, press 1. ➔ Enter the receiver MMSI. ➔ Press ENT on the [Call].

Note) If required, change the calling frequency or the working frequency, or subsequent communication mode from the TEL to the ARQ or the FEC on the menu.

Furthermore, for other DSC non-distress calls, select the call type on the menu and follow that display on the screen.

- A routine call to a group ships : RTN/Group/TEL (or FEC)
- A safety call to an individual station : SAF/ Indv/TEL (or ARQ, FEC)
- A safety call to a geographical area : SAF/Area/TEL (or FEC)
- An urgency call to an individual station : URG/ Indv/TEL (or ARQ, FEC)
- An urgency call to a geographical area : URG/Area/TEL (or FEC)

4. Silencing a receiving alarm of the distress/urgency DSC message

When receiving a distress or an urgency call, the receiving alarm will continue to sound unless silenced manually. To silence the alarm, press CANCEL key. After that, handle the message according to that content.

5. Calling and communicating with the telex

To communicate with the telex mode, the data terminal is available. If the equipment is not in telex mode, previously set the mode by pressing Enter key at the data terminal.

Making a ARQ call

1. Select Connect ➔ ARQ menu and then select the station to be called from the displayed station list.
2. Select the frequency watching at the receiver station.
3. Select "Yes" on the popup box of "Is the frequency free now?" message to start the ARQ calling.
4. After acknowledged, the communication channel is established and when "Message start" is displayed, communication can be started.
5. Input characters with the keyboard or the selected file using "F8 F.Send" key to send. Also, when giving the sending right to the receiver station, press "+?" after the message.
6. When terminating communications, press "F10 Stop".

Making a SFEC call

1. Select Connect ➔ SFEC menu and then select the station to be called from the displayed station list.
2. Select the frequency watching at the receiver station.
3. Select "Yes" on the popup box of "Is the frequency free now?" message to start the SFEC calling.
4. After finishing the preamble transmission including the address and when "Message start" is displayed, the message transmission can be started.
5. Input characters with the keyboard or the selected file using "F8 F.Send" key to send.
6. When terminating communications, press "F10 Stop".

Note 1. To make a CFEC call, the procedure is almost as mentioned above but not required to select the receiver station.
2. To receive ARQ or FEC calls, select the receiving frequency and wait until receiving the call.

6. Maintenance

- Self diagnosis of the transceiver : FUNC ➔ 8 ➔ 1 ➔ Select a test type and press ENT.
- Self diagnosis of the controller : FUNC ➔ 8 ➔ 2 ➔ Select a test type and press ENT.
- Checking the WKR MODEM* only : FUNC ➔ 8 ➔ 5 ➔ Press ENT. ➔ Press ENT. (*) Inc. DSC/NBDP loop test
- A safety test call : FUNC ➔ 0 ➔ Enter the receiver MMSI. ➔ Press ENT on the [Call].

GUIDANCE ON DISTRESS ALERTS

LIFT COVER

PRESS RED BUTTON

until beep sounds continuously (more than 4 seconds)

Use the HANDSET for voice calling

MAYDAY-MAYDAY-MAYDAY

THIS IS

NAME – NAME – NAME

CALLSIGN
or other IDENTIFICATION

MMSI
(if the initial alert is sent by DSC)

OWN ID

SHIP' S NAME; .....

CALL SIGN; .....

MMSI; .....

MAYDAY

NAME of the VESSEL in distress
CALLSIGN or other IDENTIFICATION
MMSI
(if the initial alert is sent by DSC)

POSITION

given as latitude and longitude
or
If latitude and longitude are not known or if time is insufficient, In relation to a known geographical location

NATURE of distress

Kind of ASSISTANCE required

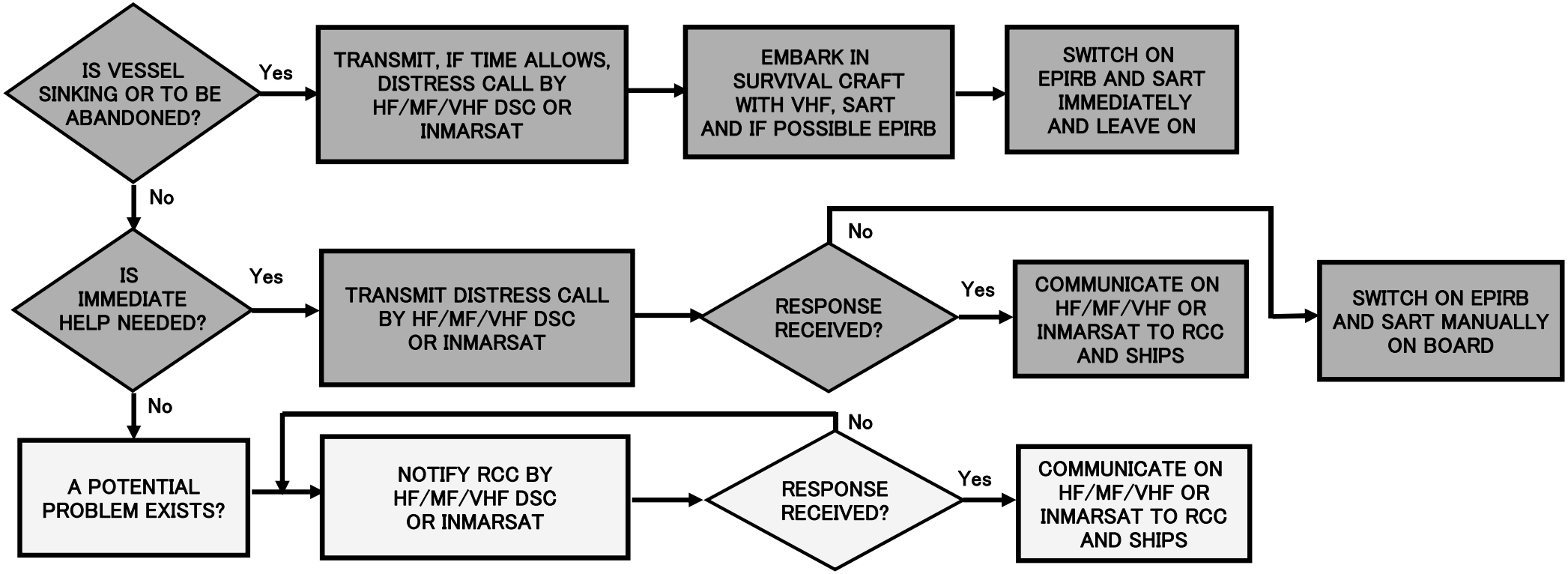
Any other useful INFORMATION

DISTRESS and COMMUNICATION FREQUENCIES

	DSC	Radiotelephony	NBDP
VHF	Channel 70	Channel 16	----------
MF	2187.5 kHz	2182 kHz	2174.5 kHz
HF4	4207.5 kHz	4125 kHz	4177.5 kHz
HF6	6312.0 kHz	6215 kHz	6268.0 kHz
HF8	8414.5 kHz	8291 kHz	8376.5 kHz
HF12	12577.0 kHz	12290 kHz	12520.0 kHz
HF16	16804.5 kHz	16420 kHz	16695.0 kHz

Remember to use the correct HF-procedures
Don't forget your EPIRB is the secondary means of alerting

GMDSS OPERATING GUIDANCE FOR MASTERS OF SHIPS IN DISTRESS SITUATIONS



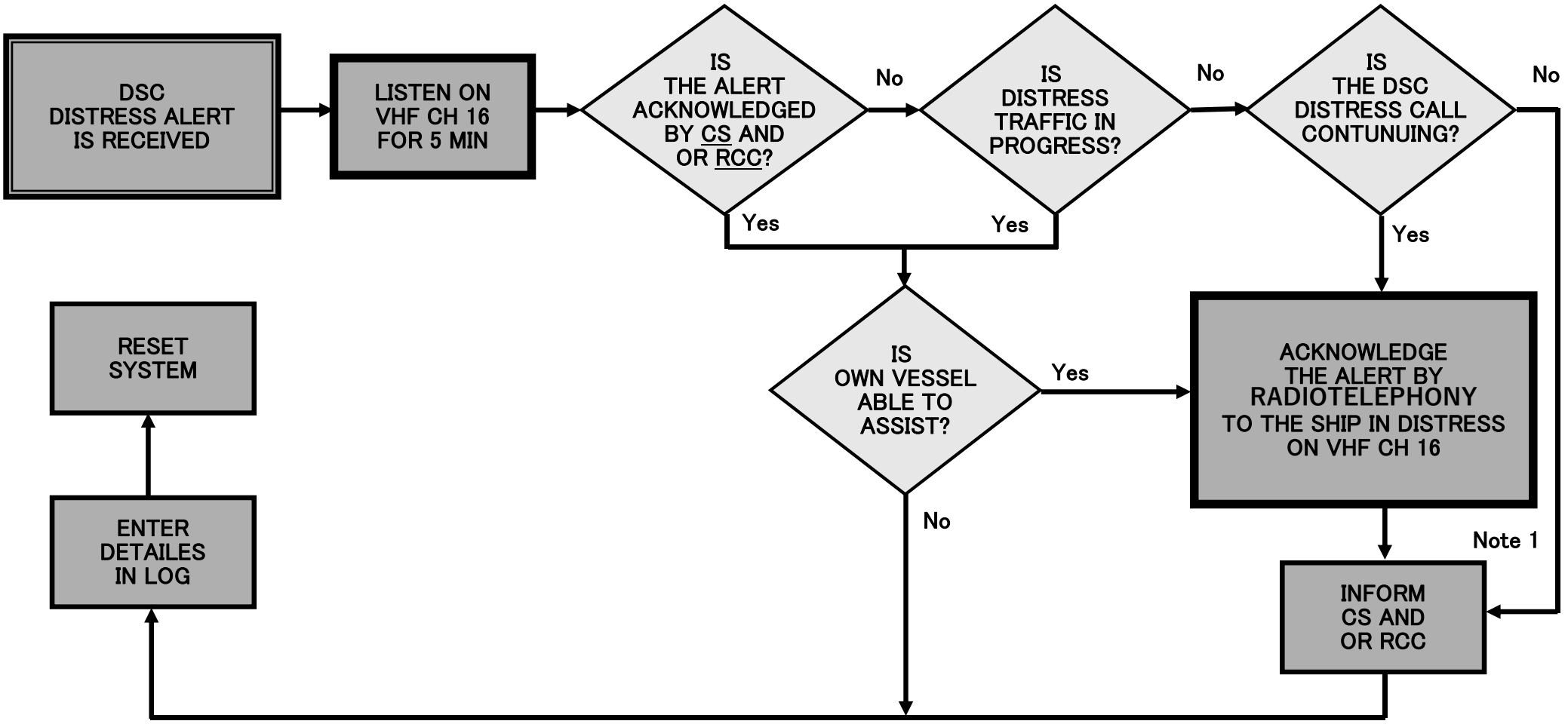
1. EPIRB should float free and activate automatically if it cannot be taken into survival craft.
2. Where necessary, ships should use any appropriate means to alert other ships.
3. Nothing above is intended to preclude the use of any and all available means of distress alerting.

RADIO DISTRESS COMMUNICATIONS

	DIGITAL SELECTIVE CALLING (DSC)	RADIOTELEPHONE	RADIOTELEX
VHF	CHANNEL 70	CHANNEL 16	
MF	2187.5 kHz	2182.0 kHz	2174.5 kHz
HF4	4207.5 kHz	4125.0 kHz	4177.5 kHz
HF6	6312.0 kHz	6215.0 kHz	6268.0 kHz
HF8	8414.5 kHz	8291.0 kHz	8376.5 kHz
HF12	12577.0 kHz	12290.0 kHz	12520.0 kHz
HF16	16804.5 kHz	16420.0 kHz	16695.0 kHz

CODE No. : 7ZPJD0135A

ACTIONS BY SHIPS UPON RECEPTION OF VHF DSC DISTRESS ALERT



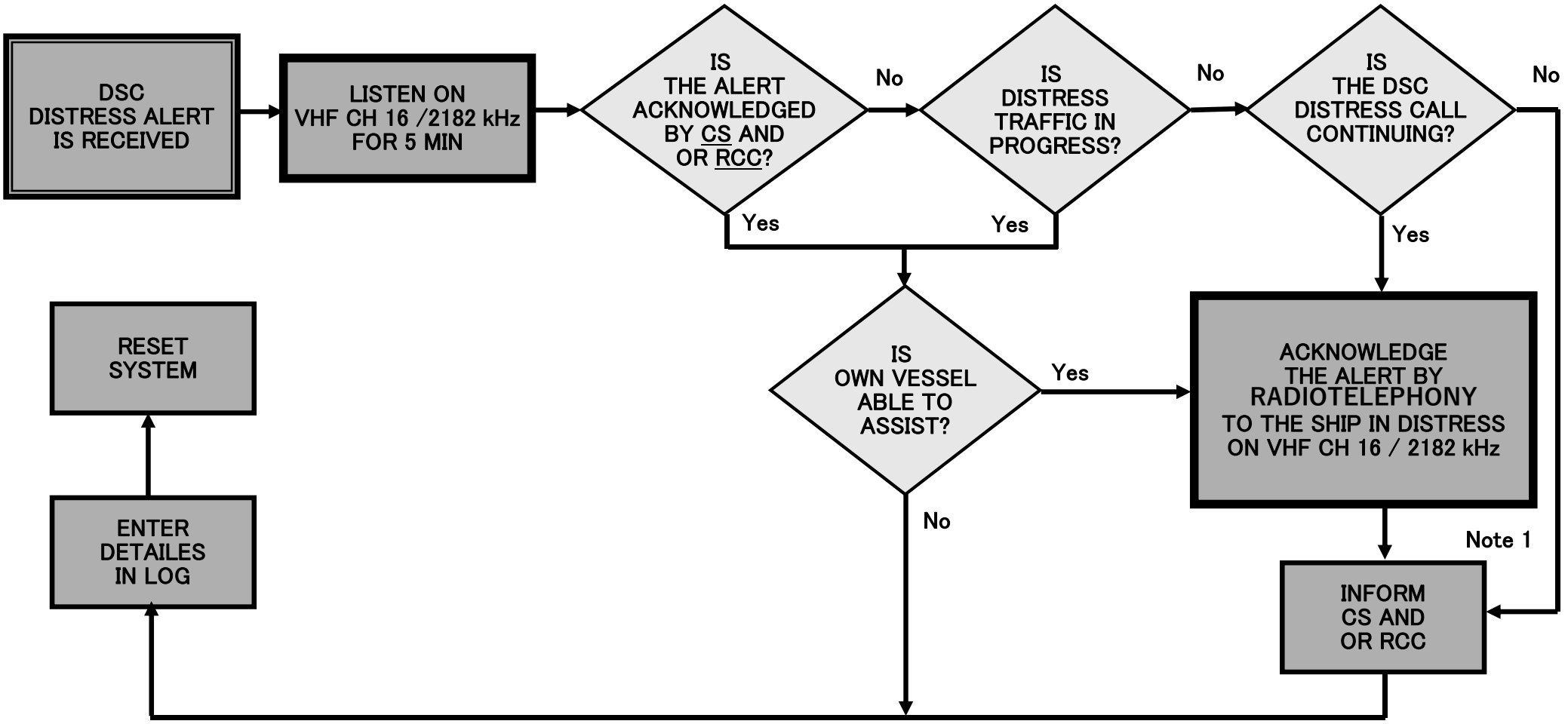
REMARKS:

Note1 : Appropriate or relevant RCC and/or Coast Station shall be informed accordingly. If further DSC alerts are received from the same source and the ship in distress is beyond doubt in the vicinity, a DSC acknowledgement may, after consultation with an RCC or Coast Station, be sent to terminate the call.

Note2 : In no case is a ship permitted to transmit a DSC distress relay call on receipt of a DSC distress alert on VHF channel 70.

CS = Coast Station **RCC** = Rescue Co-ordination Center

ACTIONS BY SHIPS UPON RECEPTION OF VHF/MF DSC DISTRESS ALERT



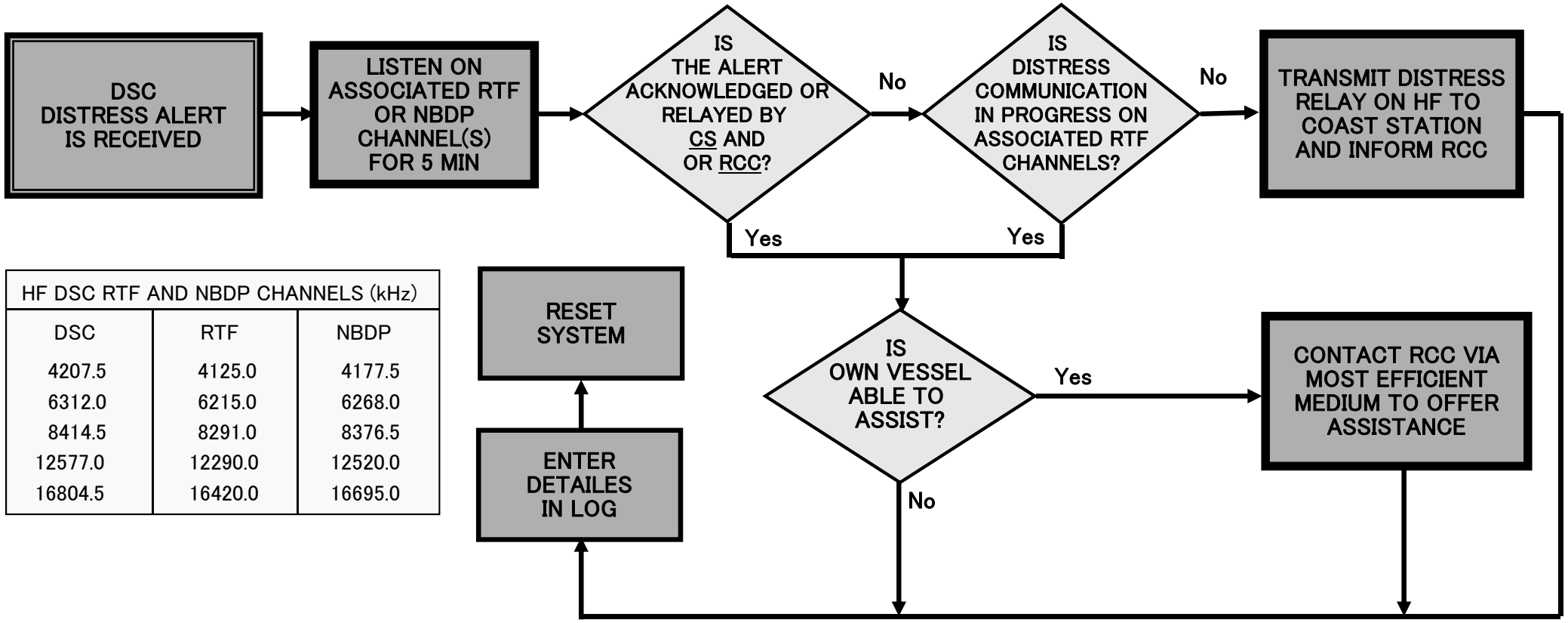
REMARKS:

Note1 : Appropriate or relevant RCC and/or Coast Station shall be informed accordingly. If further DSC alerts are received from the same source and the ship in distress is beyond doubt in the vicinity, a DSC acknowledgement may, after consultation with an RCC or Coast Station, be sent to terminate the call.

Note2 : In no case is a ship permitted to transmit a DSC distress relay call on receipt of a DSC distress alert on either VHF or MF channels.

CS = Coast Station **RCC** = Rescue Co-ordination Center

ACTIONS BY SHIPS UPON RECEPTION OF HF DSC DISTRESS ALERT



HF DSC RTF AND NBDP CHANNELS (kHz)		
DSC	RTF	NBDP
4207.5	4125.0	4177.5
6312.0	6215.0	6268.0
8414.5	8291.0	8376.5
12577.0	12290.0	12520.0
16804.5	16420.0	16695.0

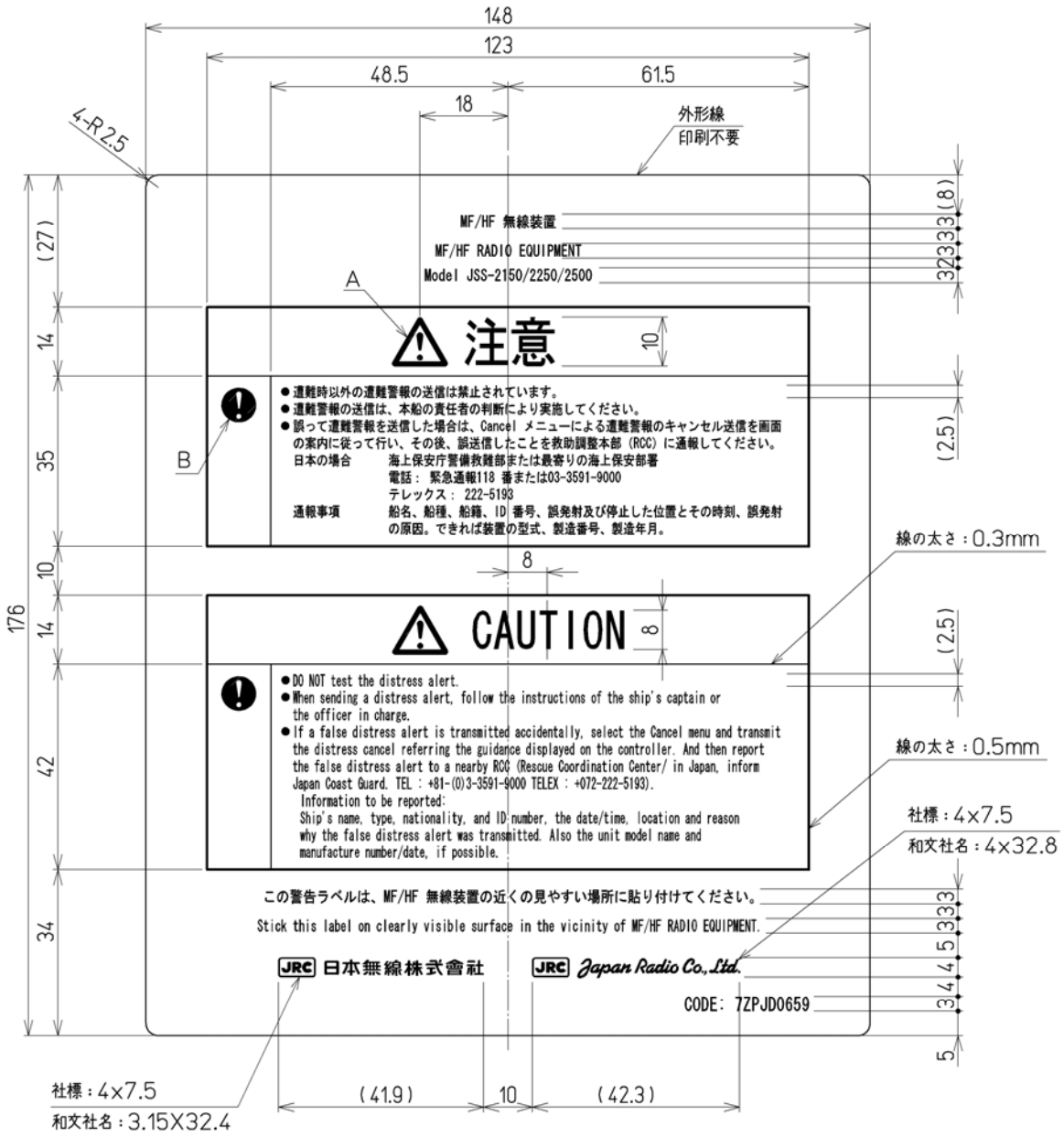
REMARKS:

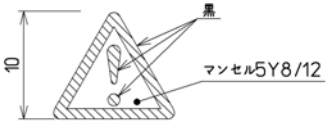
Note 1 : If it is clear the ship or persons in distress are not in the vicinity and/or other crafts are better placed to assist, superfluous communications which could interfere with search and rescue activities are to be avoided. Details should be recorded in the appropriate log book.

Note 2 : The ship should establish communications with the station controlling the distress as directed and render such assistance as required and appropriate.

Note 3 : Distress relay calls should be initiated manually.

CS = Coast Station **RCC** = Rescue Co-ordination Center





A(2:1)
2ヶ所

B(3:1)
2ヶ所

記号	改訂履歴	検認
	嶋田 '12・12・28	

注記

1．材料：PETWH50(A) PA-T1（裏面接着剤付き）
　印刷後、フジクリア16 PLシン PET2501でラミネートのこと．
2．書体：NIS（長体可．バランスよく配置のこと）
3．色：地色は白、文字及び仕切り線は黒色、記号は図示とする．
4．線太さ：図示
5．シルクスクリーン印刷のこと．
6．版下校正を要す．
7．1枚／台紙にて納品のこと．

RoHS対応のこと

出図責任

材料	処理	仕上	許容差
注記	注記		

	検認	検図	担当	尺度	名称		葉番
	矢澤 '14・3・26	長塚 '14・3・26	岡元 '14・3・26	1：1	警告銘板		1／1
				A3	図番	_MPNN49249	

JRC 日本無線株式會社

B822C 第3角法 単位 mm