



船舶無線電臺審驗技術要點

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船舶無線電臺審驗技術要點

第一章 總則

- 1.1 本要點係依據電信法第四十六條第四項規定訂定之。
- 1.2 參考海上人命安全公約、國際電信聯合會無線電規則及1993年國際海事組織第十八屆大會之A.746(18)號決議案所採納審驗與發證統一制度之審驗準則(Survey guidelines under the harmonized system of survey and certification)中之第八章之船舶無線電審驗規範，據以訂定本要點。
- 1.3 本要點供船舶無線電臺審驗人員執行業務之用。

第二章 名詞解釋

- 2.1 船舶無線電臺(Ship Radio Station)：依船舶無線電臺管理辦法及國際無線電規則規定於船舶上裝設無線電收發設備及遇險自動通報設備供通信用之無線電臺，其主管人員為船長。船舶無線電臺可分為下列二種：
 - (1)全球海上遇險及安全系統船舶無線電臺：適用公約船所裝設之船舶無線電臺。
 - (2)非全球海上遇險及安全系統船舶無線電臺：依非適用公約船之種類、船長、總噸位及航行海域裝設之船舶無線電臺。
- 2.2 船舶無線電臺執照(Ship Radio Station License)：為證明船舶無線電臺登記及使用權利之文件，由國家通訊傳播委員會(以下簡稱本會)核發。
- 2.3 貨船安全(無線電)證書(Cargo Ship Safety Radio Certificate)：為貨船船舶無線電臺依照「海上人命安全國際公約」規定檢查合格之證明，由本會全權委託中國驗船中心核發。
- 2.4 發射種類(Class of Emission)：發射之特性依調變方式、調變訊號特性、傳輸資訊方式及其他特性之分類。
- 2.5 單邊帶發射：(Single-Sideband Emission；SSB)：含單一調幅邊帶之發射。
- 2.6 全載波單邊帶發射：(Full Carrier Single-Sideband Emission；H3E)：載波未被衰減之單邊帶發射。
- 2.7 減載波單邊帶發射：(Reduced Carrier Single-Sideband Emission；R3E)：載波遏制之程度足以使載波信號回復供解調使用之一種單邊帶調幅發射。
- 2.8 遏制載波單邊帶發射：(Suppressed Carrier Single-Sideband Emission；J3E)：載波被實質遏制，於解調時不予使用之一種單邊帶調幅發射。
- 2.9 船上通信設備(On-Board Communication apparatus)：包括固定或輕便設備或兩者兼具，供船上應急控制站、召集站、搭乘站及船上重要場所間雙向通信之用。
- 2.10 水上行動業務識別號碼(Maritime Mobile Service Identity，簡稱MMSI)：凡裝設GMDSS無線電通信設備及應急指位無線電示標之船舶電臺、船舶地球電臺及海岸電臺，由各國主管當局配一個九碼之識別號碼，作為一般通信、遇險與安全通信時，自動表示其身分以供識別。我國其首三位經國際電信聯合會指配為416，其餘六位數字，則由本會指配之。

第三章 船舶無線電臺之審驗種類

3.1 船舶無線電臺之審驗分類如下：

- (1) 初次審驗(Initial survey)：指對新設船舶無線電臺設備有關項目審驗，以確保各該項目係在令人滿意之狀況，適於該船之預定航務。
- (2) 換照審驗(Renewal Survey)：換發船舶電臺執照之審驗。
- (3) 額外審驗(Additional Survey)：指視情況之需而實施之全部或部分審驗，或當船舶發生事故後之調查或有重大修理、更新設備時之審驗。
- (4) 年度審驗(Annual survey)：指對航行國際航線適用海上人命安全國際公約之船舶及遠洋漁船應於船舶無線電臺執照有效期間內，由始日起算，每屆滿一年實施之審驗。
- (5) 特別審驗：指離島地區距岸 24 哩內或距岸 24 哩外經濟海域內作業之船舶，得於年度審驗或換照審驗時，將電臺寄送本會監理處審驗，並於送回裝置後檢具裝置資料及照片送本會監理處審查。
- (6) 複驗：船舶電臺審驗結果不合格，經通知限期改善後，應於期限內申請複驗，並以一次為限。

3.2 船舶無線電臺之種類及設備相關規定

- (1) 全球海上遇險及安全系統船舶無線電臺之通信設備，應依船舶設備規則第七編之附表七「適用海上人命安全國際公約船無線電通信基本設備表」及附表九「適用漁船國際公約船無線電通信基本設備表」規定配置，無線電通信設備之技術規定，應依船舶設備規則第七編第二章之規定辦理。
- (2) 非全球海上遇險及安全系統船舶無線電臺之通信設備，應依船舶設備規則第七編之附表八「非適用海上人命安全國際公約船無線電通信基本設備表」及附表十「非適用漁船國際公約船無線電通信基本設備表」之規定配置，無線電通信設備之技術規定，應依船舶設備規則第七編第二章之規定辦理。

第四章 船舶無線電臺審驗作業方法

4.1 船舶無線電臺審驗作業流程如圖一所示。

4.2 船舶無線電臺審驗時，審驗人員應審核是否與原申請電臺架設許可證之申請書或原船舶無線電臺執照記載事項相符，並製作船舶電臺審驗登記表（附表一）。

已於國外架設並經本會委託或認可之機構完成審驗者，直接申請船舶無線電臺執照時，審核人員應審核該審驗機構之審驗報告內容是否與原申請記載事項相符

4.3 船舶無線電臺設備之審驗應依據 3.2 與下列規定逐項審驗。

- (1) 全球海上遇險及安全系統船舶無線電臺之通信設備，應依 [附表四](#)「全球海上遇險及安全系統船舶無線電臺審驗報告」（含附表四—I 船舶安全無線電設備審驗表、附表四—II 船舶安全無線電設備紀錄）進行審驗。
- (2) 非全球海上遇險及安全系統船舶無線電臺之通信設備，應依 [附表二](#)「非全球海上

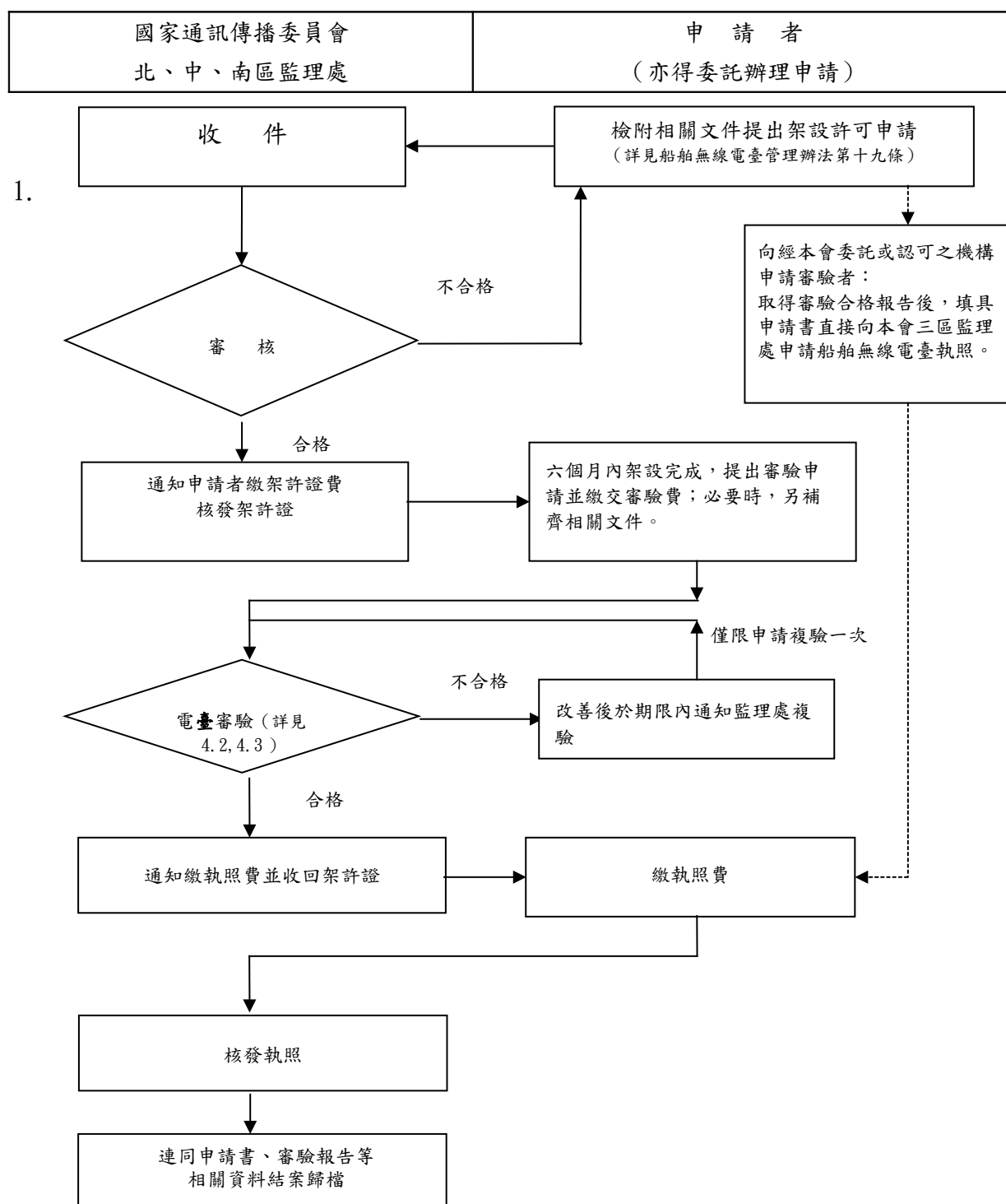
遇險及安全系統船舶無線電臺審驗報告」進行審驗。

- (3) 非全球海上遇險及安全系統之船舶用無線電對講機，應依[附表三](#)「非全球海上遇險及安全系統之船舶用無線電對講機審驗表」進行審驗。

第五章 附 則

- 5.1 港口碼頭及輪船為管制區域，船舶無線電審驗人員應先將港區通行證件準備完妥，以免觸犯規定。
- 5.2 船舶停靠碼頭有時使用無欄跳板，有時停泊浮筒或錨泊時風浪太大；而上下舷梯太高，登船時易生危險，審驗人員為安全起見，可拒絕登船檢查以防意外。
- 5.3 於本會實施審驗時，應通知船舶無線電臺指派熟悉電信設備操作之人員在場。
- 5.4 航行國際航線之船舶，在船舶無線電臺執照有效期限屆滿申請換照時，經檢查貨船安全（無線電）證書仍屬有效，並持有依船舶無線電臺管理辦法第二十條第二項規定所取得之合格審驗報告者，可據以換發船舶無線電臺執照，無須再行審驗。

圖一 船舶無線電臺審驗作業流程圖



備註：依船舶無線電臺管理辦法第十九條第一項規定，船舶申請設置

27MHz 頻帶船舶用無線電對講機（DSB），免予申請架設許可證，經審驗合格後，核發船舶無線電臺執照。

- 依船舶無線電臺管理辦法第二十一條第二項規定，僅設置船舶用無線電對講機並取得專用執照者，其執照屆滿免經審驗得逕予換發新照；惟另裝設其他船舶無線電信設備，仍應經審驗合格後換發新照。

- 3.已於國外架設並經主管機關委託或認可之機構完成審驗者，直接申請船舶無線電臺執照時，
審核人員應審核該審驗機構之審驗報告內容是否與原申請記載事項相符。

附表一 中華民國國家通訊傳播委員會

船舶電臺審驗登記表

1. 船舶名稱：
2. 電臺呼號：
3. MMSI 號碼：
4. 船舶號數(或小船編號)：
5. 船舶所有人：
6. 船舶種類：
7. 船籍港：
8. 航行海域：
9. 電臺種類：
10. 公眾通信種類：
11. 電臺執照：有效日期 / /
12. 換照期限(年)：
13. 漁船統一編號：
14. 總噸數：
15. 設備：

(一) 主要設備：

機件名稱	廠 牌	型 號	數 量	發射類別	頻帶或指配頻率	功 率	機件狀態	備 註

(二) 備用設備：

機件名稱	廠 牌	型 號	數 量	發射類別	頻帶或指配頻率	功 率	機件狀態	備 註
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附表一

(三) 其他設備：

機件名稱	廠 牌	型 號	數 量	發射類別	頻帶或指配頻率	功 率	機件狀態	備 註

16. 設備更新、異動記載（初次審驗不用填）

(*) 項目	設備名稱				審驗人員	審驗地點	日期
	廠牌	型式	簽發認證單位	位置			
	備註：						
	舊機件流向：						

(*) 本欄必須與報告項目相符

備註：

1. 本表可由本會電腦 TRAIS 系統直接印出，供審驗人員審核、加註。

2. 審核之相關證明文件種類如下（參考用）：

申請人（船舶所有人）部分：身分證明文件、公司證明文件或營利事業登記證影本.....等。

船舶登記證明文件部分：船舶登記證影本、小船執照影本；非小船為船舶檢查證書影本及（臨時）國籍證書影本或（娛樂）漁船之（娛樂）漁業執照.....等。

附表一

附表二 中華民國國家通訊傳播委員會 非全球海上遇險及安全系統船舶無線電臺審驗報告

審驗報告編號：

審驗日期： / /

審驗地點：

一、基本資料

1	船名：	2	電臺呼號：
3	MMSI 號碼：	4	船舶號數(或小船編號)：
5	船籍港：	6	船舶種類：
7	總噸數：	8	電臺種類：
9	航行海域：	10	漁船統一編號：
11	公眾通信種類：	12	換照期限：
13	船舶所有人： 聯絡 電話： 地 址：		

(請將審驗結果於□中填入×，若無該項設備時填入 N. A.)

二、一般審驗

是 否

1. 電臺設備放置是否適當、天線是否固定牢靠..... ☐ ☐
2. 是否設有緊急照明燈、準確時鐘..... ☐ ☐
3. 是否有備用電源 ☐ 充電設備或 ☐ 備用發電機..... ☐ ☐
 - 3.1 安全燈及特高頻或(及)中/高頻無線電設備，切換至備用電源是否正常操作... ☐ ☐
 - 3.2 備用電源之電壓 DC _____V ；或比重計測得其比重_____
 - 3.3 主要電源電壓 AC _____V
4. 是否有下列參考文件：
 - 4.1 無線電日誌簿..... ☐ ☐
 - 4.2 經常收受通信之海岸/漁業通信電臺表..... ☐ ☐
 - 4.3 是否備有水上行動業務相關手冊【國際航線（漁船免備）：ITU 發行之水上行動業務實用手冊與相關文件；國內航線及所有漁船：船舶無線電臺通信作業要點。】..... ☐ ☐
5. 是否有 ☐ 備用天線（國內航線或經濟海域內者免備）或 ☐ 備用發射機..... ☐ ☐

三、設備測試

1. 中/高頻 (M/HF) 無線電設備 (若有裝設) 是 否
 - 1.1 收發話機是否具備開關或按鈕，能於緊急時立即使用 2182kHz 呼救頻率 ☐ ☐
 - 1.2 各發送頻率是否皆已預為調妥，而能快速變換..... ☐ ☐
 - 1.3 發話機輸出電功率是否超過 400W(PEP)..... ☐ ☐
 - 1.4 若另裝設中/高頻數位選擇呼叫接收、發射設備者，其數位選擇呼叫號碼是否燒錄正確..... ☐ ☐

1.5 若另裝設中/高頻數位選擇呼叫守聽接收設備者，能否產生清晰警報聲響..... ☐ ☐

附表二

1.6 中/高頻 (M/HF) 無線電話之主要設備功率及頻率容許差度測試

Carrier Frequency (MHz)	Assigned Frequency (MHz)	Class of Emission	Radiated Power (W)(PEP)	Measured Carrier Frequency(MHz)	Frequency Tolerances(Hz)	Tolerances Standard(Hz)
2.182	2.1834	J/H3E				± 40Hz
8.255	8.2564	J3E				± 50Hz
*以下頻率擇一測試 4.125 6.215 12.290	4.1264 6.2164 12.2914	J3E				
27.065*	27.065	A3E				

※ 27.065MHz 為 DSB 警急遇險共同呼叫頻率亦應測試

1.7 中/高頻 (M/HF) 無線電話之備用設備功率及頻率容許差度測試 (若有裝設)

Frequency (MHz)	Assigned Frequency (MHz)	Class of Emission	Radiated Power (W)(PEP)	Measured Carrier Frequency(MHz)	Frequency Tolerances(Hz)	Tolerances Standard(Hz)
2.182	2.1834	J/H3E				± 40Hz
8.255	8.2564	J3E				± 50Hz
*以下頻率擇一測試 4.125 6.215 12.290	4.1264 6.2164 12.2914	J3E				

1.8 中/高頻 (M/HF) 無線電設備

廠 牌	型、序號	頻率範圍

2. 特高頻 (VHF) 無線電設備 (若有裝設)

待測頻道	待測頻率(MHz)	Radiated Power (≤25W，並可降低至1W)	Measured Carrier Frequency(MHz)	Frequency Tolerances(Hz)	Tolerances Standard(Hz)
13	156.65				± 10 PPM
16	156.80				
1*	156.05				

3*	156.15				
28*	157.40				

*這些頻道可擇一測試 是 否

2.1 與其他電臺或特高頻手持式雙向無線電話測試是否能正常通話..... ☐ ☐

2.2 若另裝設特高頻數位選擇呼叫接收、發射設備者，其數位選擇呼叫號碼是否燒錄正確
(若有裝設)..... ☐

☐

2.3 特高頻 (VHF) 無線電設備

廠 牌	型、序號	頻率範圍

附表二

3. 應急指位無線電示標 (EPIRB)

	廠 牌	型、序號	操作頻率	電池有效日期 (月/日/年)
P-side			406~406.1MHz+121.5MHz	
S-side			406~406.1MHz+121.5MHz	

是 否

3.1 是否固定安置於駕駛艙外兩側明顯可及處並不影響自動浮離功能 (衛星應急指位無線電示標應配合裝置於自動浮離裝置上)..... ☐ ☐

3.2 衛星應急指位無線電示標燒錄 MMSI 號碼是否正確..... ☐ ☐

3.3 應急指位無線電示標是否能正常操作，並有定期試驗及更換電池紀錄..... ☐ ☐

自動浮離裝置有效日期： 年 月 日

4. 航行警告電傳接收機 (NAVTEX; 若有裝設) 是 否

4.1 航行警告電傳接收機自動測試功能是否正常..... ☐ ☐

4.2 檢視最近所接收之列印資訊是否正常..... ☐ ☐

廠 牌	型、序號	樣式
		<input type="checkbox"/> 國際頻率 518kHz <input type="checkbox"/> 國內區域性頻率

5. 搜救定位裝置【雷達詢答機(SART)或 AIS 搜救發送器(AIS-SART); 若有裝設】 是 否

5.1 配合船上 9 GHz 雷達或 AIS，產生定位信號是否正常 (若有裝置) ☐ ☐

5.2 安裝位置及固定方式是否適當..... ☐ ☐

廠 牌	型、序號	電池有效日期
		年 月 日
		年 月 日

6. 手持式雙向特高頻無線電話 是 否
- 6.1 與其他電臺或特高頻手持式雙向無線電話測試是否能正常通話..... ☐ ☐
- 6.2 若採用充電電池，船上應有充電設施；若採用原電池（一次使用）應於電池有效日期期限內..... ☐ ☐
7. 其他設備：

附表二

8. 設備更新、異動記載（初次審驗不用填）

(*) 項目	設備名稱				審驗人員	審驗地點	日期
	廠牌	型式	簽發認證單位	位置			
	備註：						
	舊機件流向：						

四、審驗意見：

☐ 國家通訊傳播委員會 北/中/南區監理處

☐ 經主管機關委託或認可之機構
公司行號：

公司印章：

審驗人

簽章

年 月 日

報告審核人：

☐ 基本資料是否相符。

☐ 申請記載事項與原船舶無線電臺執照、架設許可或專案核准內容等，是否相符。

附表二

附表三 中華民國國家通訊傳播委員會

非全球海上遇險及安全系統之船舶用無線電對講機審驗表

中華民國 年 月 日

一、27MHz 船舶用無線電對講機

船舶資料	船 名			
	船舶所有人			
	船舶號數（或小船編號、漁船統一編號）			
	所屬區漁會或船籍港			
證照記錄事項	執照字號及日期			
	異動記錄			
對講機廠牌及型式				
發射機部分	實測功率			
	規定頻率	27.065MHz	實測頻率 (容許差度) 50 PPM	
	※ 90% < 最大調幅度 < 100%			
※ 接收機部分	總諧波失真率 < 10%			
	音頻功率 > 2W			
	靈敏度 < 2 μ V			
審驗編號				
審驗結果	合 格			
	不合格			
備註				

※如因場地、器材或時間因素限制時，可選擇性測試。

二、登船審驗時，一般審驗項目或有增設其他船舶電信設備，仍應配合附表二非全球海上遇險及安全系統船舶無線電臺審驗報告相關項目辦理審驗。

☐ 國家通訊傳播委員會 北/中/南區監理處

☐ 經主管機關委託或認可之機構

公司行號：

公司印章：

審驗人

簽章

年 月 日

報告審核人：

☐ 基本資料是否相符。

☐ 申請記載事項與原船舶無線電臺執照、申請書或專案核准文件內容等，是否相符。

附表三

附表四

中華民國國家通訊傳播委員會
全球海上遇險及安全系統船舶無線電臺審驗報告

NATIONAL COMMUNICATIONS COMMISSION
REPUBLIC OF CHINA

Survey Report of Ship Radio Installations
(GMDSS)

Two Parts are included

I. Check List for the Report of Ship Radio Installations

II. RECORD OF SHIP SAFETY RADIO

附表四-I

中華民國國家通訊傳播委員會

船舶安全無線電設備審驗表

(GMDSS 設備)

NATIONAL COMMUNICATIONS COMMISSION

REPUBLIC OF CHINA

Check List for the Report of Ship Radio Installations

(GMDSS)

<input type="checkbox"/> 初次審驗	<input type="checkbox"/> 換證審驗	<input type="checkbox"/> 年度審驗	<input type="checkbox"/> 額外審驗
-------------------------------	-------------------------------	-------------------------------	-------------------------------

Report No	Date issued	Issued at	
Name of ship	IMO No	Call Sign	MMSI
Ship number	Port of Registry	Keel Laid	Gross Tonnage
Ship Owner and Address			
Place of Survery <input type="checkbox"/> In drydock <input type="checkbox"/> On slipway <input type="checkbox"/> Afloat	Survery commenced Mm/dd/year	Survery completed Mm/dd/year	

Conclusion

Suveryor _____

Note: Fill out the blanks and check with "X" as appropriate in

附表四-I

NATIONAL COMMUNICATIONS COMMISSION REPUBLIC OF CHINA

Check list for the survey of Ship Radio Installations

1. Basic Data

- 1.1 Ship navigating sea areas (Reg. IV/2, 8, 9, 10, 11)
☐ A1 ☐ A1+A2 ☐ A1+A2+A3 ☐ A1+A2+A3+A4
- 1.2 Methods of ensuring availability of Equipment (Reg. IV/15)
☐ Duplication of equipment ☐ Shore based maintenance ☐ At-sea electronic maintenance capacity
- 1.3 Actual Provision of ship's radio equipment
- | | VHF | MF | MF/HF | INMARSAT | <input type="checkbox"/> B/ <input type="checkbox"/> C/ <input type="checkbox"/> F77 |
|--------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|
| Primary System: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Duplicated System: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

2. General

InS/PS/RS*

- 2.1 Confirming that any new equipment has been properly approved before installation and that no changes have been made such as would affect the validity of the certificate.....[]
- 2.2 Radio records kept in the period since the last survey to the satisfaction of the Administration and as required by the Radio Regulations (Reg. IV/17).....[]
- 2.3 Checking documentary evidence that the actual capacity of the battery has been proved in port within the last 12 months (Reg. IV/13).....[]
- 2.4 Confirming that all Radio equipment complies with appropriate performance standards not inferior to those adopted by IMO (Reg. IV/14).....[]

3. Examination of radio installations

- 3.1 Examining the position, physical and electromagnetic protection and illumination of each radio installation (Reg. IV/6).....[]
- 3.2 Confirming the provision of equipment for the radio installation with due regard to the declared sea areas in which the ship will trade and the declared means of maintaining availability of functional requirements (Reg. III/6, IV/7 to 11, 14 and 15).....[]
- 3.3 Confirming the ability to initiate the transmission of ship-to-shore distress alerts by at least two separate and independent means, each using a different radiocommunication service, from the position from which the ship is normally navigated (Reg. IV/4, 7 to 11).....[]

3.3.1 Secondary means of alerting

☐ VHF(DSC) ☐ NMARSAT-B/F77 ☐ NMARSAT-C ☐ MF(DSC) ☐ HF(DSC) ☐ VHF EPIRB
☐ 406MHz EPIRB (close to, or by remote activation from bridge)

- 3.4 Checking that the following ship's radio equipment operates from the main, emergency (if provided) and reserve sources of energy (Reg. IV/13).....[]

	VHF	MF	MF/HF	INMARSAT	<input type="checkbox"/> B/ <input type="checkbox"/> C/ <input type="checkbox"/> F77
Primary System:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Duplicated System:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

3.5 Antennas

- 3.5.1 Visually checking all antennas, including INMARSAT antennas, and feeders for satisfactory sitting and absence of defects (Reg. IV/14).....[]

- 3.5.2 Checking insulation and safety of all antennas.....[]

3.6 Reserve source of energy

- 3.6.1 Checking there is sufficient capacity to operate the basic or duplicated equipment for 1 hour(with emergency sources) or 6 hours(without emergency sources), as appropriate (Reg. IV/13).....[]

- 3.6.2 And, if the reserve source of energy is a battery:

- 3.6.2.1 Checking its sitting and installation(Reg. IV/13).....[]

- 3.6.2.2 Where appropriate, checking its condition by ☐ specific gravity measurement or ☐ voltage measurement — specific gravity = _____ or voltage = _____ volts.....[]

- 3.6.2.3 With the battery off charge, and the maximum required radio installation load connected to the reserve source of energy, checking the battery voltage and discharge current.....[]

- 3.6.2.4 Checking that the charger(s) are capable of recharging the reserve battery within 10 hours (Reg. IV/13).....[]

Check list for the survey of Ship Radio Installations

0: Not applicable
1: Satisfactory
2: Satisfactory after treatment, see further reports in head page/ Memoranda
3: Outstanding recommendation/ Surveyor's note, see further reports in head page/ Memoranda

3.7	VHF transceiver(s), <input type="checkbox"/> Primary <input type="checkbox"/> Duplicated	
3.7.1	Checking for operation on channels 6,13 and 16 (Reg. IV/7 and 14).....	[]
3.7.2	Checking for correct operation of all controls, including priority of control units (Reg. IV/14).....	[]
3.7.3	Checking the operation of the VHF control unit(s) or portable VHF transceiver provided for navigational safety from the wing of bridge (Reg. IV/6).....	[]
3.7.4	Checking for correct operation by on-air contact with <input type="checkbox"/> a coast station or <input type="checkbox"/> other ship.....	[]
3.8.	VHF DSC, <input type="checkbox"/> Primary <input type="checkbox"/> Duplicated	
3.8.1	Confirming that the correct selective calling number is programmed in the equipment.....	[]
3.8.2	Checking the off-air self-test programme.....	[]
3.8.3	Checking for correct transmission by means of <input type="checkbox"/> a routine or <input type="checkbox"/> test call to <input type="checkbox"/> a coast station, <input type="checkbox"/> other ship, <input type="checkbox"/> on-board duplicate equipment or <input type="checkbox"/> special test equipment.....	[]
3.9	CH70 DSC watch receiver, <input type="checkbox"/> Primary <input type="checkbox"/> Duplicated	
3.9.1	Checking for correct reception by means of a <input type="checkbox"/> routine or <input type="checkbox"/> test call from <input type="checkbox"/> coast station, <input type="checkbox"/> other ship, <input type="checkbox"/> on-board duplicate equipment or <input type="checkbox"/> special test equipment.....	[]
3.9.2	Checking that a continuous watch is being maintained whilst operating VHF transceiver.....	[]
3.9.3	Checking the audibility of the VHF/DSC alarm.....	[]
3.10	MF radiotelephone equipment (Primary)	
3.10.1	Checking the antenna tuning in all appropriate bands.....	[]
3.10.2	Checking for correct operation by contact with <input type="checkbox"/> a coast station and / or <input type="checkbox"/> measuring transmission line quality and <input type="checkbox"/> radio frequency output.....	[]
3.10.3	Checking receiver performance by monitoring known stations on all appropriate bands.....	[]
3.10.4	If control units are provided outside the navigating bridge, checking the control unit on the bridge has first priority for the purpose of initiating distress alerts (Reg. IV/9, 10, and 14).....	[]
3.11	MF DSC controller(s) (Primary)	
3.11.1	Confirming that the correct Maritime Mobile Service Identity is programmed in the equipment.....	[]
3.11.2	Checking the off-air self-test programme.....	[]
3.11.3	Checking operation by means of a test call on MF to a coast radio station if the rules of the berth permit the use of MF transmissions (Reg. IV/9, 10)......	[]
3.12	MF DSC watch receiver(s) (Primary)	
3.12.1	Checking that a continuous watch is being maintained whilst operating MF radio transceivers (Reg. IV/12).....	[]
3.12.2	Checking for correct operation by means of a test call from <input type="checkbox"/> a coast station or <input type="checkbox"/> other ship.....	[]
3.12.3	Checking the audibility of the MF DSC alarm.....	[]
3.13	MF/HF radiotelephone equipment, <input type="checkbox"/> Primary <input type="checkbox"/> Duplicated	
3.13.1	Checking the antenna tuning in all appropriate bands.....	[]
3.13.2	Checking for correct operation by contact with <input type="checkbox"/> a coast station and / or <input type="checkbox"/> measuring transmission line quality and <input type="checkbox"/> radio frequency output.....	[]

3.13.3 Checking receiver performance by monitoring known stations on all appropriate bands.....[]

Page of

附表四-I

NATIONAL COMMUNICATIONS COMMISSION REPUBLIC OF CHINA

Check list for the survey of Ship Radio Installations

- 3.13.4 If control units are provided outside the navigating bridge, checking the control unit on the bridge has first priority for the purpose of initiating distress alerts (Reg. IV/9, 10, and 14).....[]
- 3.14 MF/HF radiotelex equipment, ☐Primary ☐Duplicated
- 3.14.1 Confirming that the correct selective calling number is programmed in the equipment.....[]
- 3.14.2 Checking correct operation ☐by inspection of recent hard copy or ☐by a test with a coast radio Station (Reg. IV/10 and 11).....[]
- 3.15 MF/HF DSC controller(s), ☐Primary ☐Duplicated
- 3.15.1 Confirming that the correct Maritime Mobile Service Identity is programmed in the equipment.....[]
- 3.15.2 Checking the off-air self-test programme.....[]
- 3.15.3 Checking operation by means of a test call on MF and HF to a coast radio station if the rules of the berth permit the use of MF/HF transmissions (Reg. IV/9, 10).....[]
- 3.16 MF/HF DSC watch receiver(s), ☐Primary ☐Duplicated
- 3.16.1 Checking that a continuous watch is being maintained whilst operating MF/HF radio transceivers (Reg. IV/12).....[]
- 3.16.2 Checking for correct operation by means of a test call from ☐a coast station or ☐other ship.....[]
- 3.16.3 Checking the audibility of the MF/HF DSC alarm.....[]
- 3.17 INMARSAT - ☐B, ☐C or ☐F77 ship earth station(s), ☐Primary ☐Duplicated
- 3.17.1 Checking that the correct INMARSAT Identity is programmed in the equipment.....[]
- 3.17.2 Checking that the equipment operates from the main, emergency (if provided) and reserve sources of energy, and that where an uninterrupted supply of information from the ship's navigational or other equipment is required ensuring such information remains available in the event of failure of the ship's main or emergency source of electrical power (Reg. IV/13 and 14).....[]
- 3.17.3 Checking the distress function by means of an approved test procedure where possible (Reg. IV/10, 12 and 14).....[]
- 3.17.4 Checking for correct operation by ☐inspection of recent hard copy or ☐by test call.....[]
- 3.18 NAVTEX equipment (Reg. IV/7, 12 and 14)
- 3.18.1 Checking for correct operation by ☐monitoring incoming messages or ☐inspecting recent hard copy.....[]
- 3.18.2 Running the self-test programme if provided.....[]
- 3.19 Enhanced group call equipment, if provided (Reg. IV/7 and 14)
- 3.19.1 Checking for correct operation and area by monitoring incoming messages or by inspecting recent hard copy.....[]
- 3.19.2 Running the self-test programme if provided.....[]
- 3.20 Radio equipment for receipt of maritime safety information by HF NBDP; if provided (Reg. IV/7, 12 and 14)
- 3.20.1 Checking for correct operation by ☐monitoring incoming messages or ☐inspecting recent hard copy...[]
- 3.20.2 Running the self-test programme if provided.....[]
- 3.21 EPIRB, ☐406MHz ☐1.6GHz ☐CH 70 EPIRB (Reg. IV/7 and 14)
- 3.21.1 Checking position and mounting for float-free operation.....[]
- 3.21.2 Carrying out visual inspection for defects.....[]
- 3.21.3 Carrying out the self-test routine.....[]
- 3.21.4 Checking that the EPIRB Identity is clearly marked on the outside of the equipment and decoding the EPIRB identity number and confirming it is correct.....[]
- 3.21.5 Checking the battery expiry date:.....(D/M/Y).....[]
- 3.21.6 If provided, checking the hydrostatic release and its expiry date:.....(D/M/Y).....[]
- 3.22 Two-way VHF radiotelephone apparatus (Reg. III/6)
- 3.22.1 Checking for correct operation on channel 16 and one other by testing with another ☐fixed or ☐portable VHF installation(Reg.IV/14).....[]
- 3.22.2 Checking the battery charging arrangements, where rechargeable batteries are used (Reg.IV/14).....[]
- 3.22.3 Checking the expiry date of primary batteries, where used (Reg. IV/14)
No.1.....No.2.....No.3.....(D/M/Y).....[]
- 3.22.4 Where appropriate, checking any fixed installation provided in a survival craft (Reg. IV/14).....[]
- 3.23 Search and rescue locating devices (☐Radar transponder/☐AIS-SART) (Reg. III/6, IV/7 and 14)
- 3.23.1 Checking the position and mounting.....[]
- 3.23.2 Monitoring response on ship's ☐GHz radar /☐AIS.....[]
- 3.23.3 Checking the battery expiry date: No.1.....No.2.....(D/M/Y).....[]
- 3.24 Examining the test equipment and spares carried to ensure carriage is adequate in accordance with the sea areas in which the ship trades and the declared options for maintaining availability of the functional requirements (Reg. IV/15).....[]

4.1 A valid radio license issued by the flag Administration (ITU RR Art. 24).....[]

4.2 ✳ Radio operator's certificates of competence (Reg. IV/16, ITU RR Art. 56, Chapter VIII / STCW).....[]

* Name of Radio Operator	Class & Certificate No.	Certificate issued by

4.6 Carriage of service manuals for all equipment when at-sea maintenance is the declared option (Reg. IV/15).....

☐ Not altered

☐ Altered. List the equipments which has been altered in the following spaces

Equipment	Equipment(Newly installed on board) (Model and Quantity)	Equipment listed in the Ship Station License (Model and Quantity)
Primary		
Duplicated		
Others		

☐ The above survey items have been checked and found in compliance with relevant provisions of convention.

☐ The record of safety radio installation is updated if the equipment has been altered.

[illegible]

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※: This item is not required.

附表四-I

附表四-II

中華民國國家通訊傳播委員會 船舶安全無線電設備記錄 (GMDSS 設備)

NATIONAL COMMUNICATIONS COMMISSION REPUBLIC OF CHINA

RECORD OF SHIP SAFETY RADIO (GMDSS)

To meet the provisions of the SOLAS 1974 as amended in 1988 for the GMDSS, the form must be kept on board and be available for inspection by a nominated surveyor or recognized organization at all times.

Report No.	Date issued	Issued at
Name of ship	IMO No.	Ship number
Port of Registry	Keel Laid	Gross Tonnage
Place of Survey in drydock on slipway afloat	Survey commenced (mm/dd/year)	Survey completed (mm/dd/year)
Call Sign: ID for DSC(MF/ MF/HF): ID for INMARSAT-C: 1 st ID for INMARSAT-B: ID for INMARSAT-F77	ID for DSC(VHF): ID for NBDP: ID for Satellite EPIRB: 2 nd ID for INMARSAT-B:	

Navigating Sea Areas: <div style="display: flex; justify-content: space-around; margin-top: 5px;"> A1 A1+A2 A1+A2+A3 A1+A2+A3+A4 </div>
Maintenance Requirements: <div style="display: flex; justify-content: space-around; margin-top: 5px;"> Duplication of Equipment Shore-based Maintenance At Sea Maintenance </div>

Note: Fill out the blanks and check with “×” as appropriate in

附表四-II

NATIO

NAL COMMUNICATIONS COMMISSION REPUBLIC OF CHINA

Record of Ship Safety Radio

1. Source of electrical power

1.1 Main Source of energy [Reg. IV/13.1]

VAC × _____ kVA × _____ Set(s)

1.2 Emergency Source of electrical power [Reg. II-1/42, 43]

1.2.1 ☐ Emergency generator

VAC × _____ kVA × _____ Set(s), Located _____, or

1.2.2 ☐ Accumulator batteries

VDC × _____ Ah × _____ Set(s), Located _____

1.2.3 Equipment's operated by emergency source of electrical power for 18 hours or more.

VHF radio installation of ☐ primary / ☐ Duplicated system with DSC watch receiver.....[]

MF radio installation with DSC watch receiver.....[]

MF/ HF radio installation of ☐ Primary / ☐ Duplicated system with DSC watch receiver.....[]INMARSAT SES of ☐ Primary / ☐ Duplicated system.....[]

1.3 Reserve source of energy (battery) [Reg. IV/13]

Manufacturer	Type	Voltage	Capacity	Specific Gravity of Acid	Located at

1.3.1 Type and maker of means of automatically charging.....[]

1.3.2 Equipment operated by reserve source of energy for ☐ 1 / ☐ 6 hours or more.

Emergency light for radio controller.....[]

VHF radio installation of ☐ Primary / ☐ Duplicated system.....[]

MF radio installation for Primary system.....[]

MF/ HF radio installation of ☐ Primary / ☐ Duplicated system.....[]INMARSAT SES of ☐ Primary / ☐ Duplicated system.....[]**2. Radio life-saving appliances [Reg. III/6.2]**

2.1 Two-way VHF radiotelephone apparatus

No.	Manufacturer	Type (Serial No.)	Channels	Approved by	Locate at
1					
2					
3					

2.2 Search and rescue locating devices (☐ Radar transponder/ ☐ AIS-SART)

No.	Manufacturer	Type (Serial No.)	Channels	Approved by	Located at
1					
2					
3					

3. Radio installation [Reg. IV/6]

3.1 Location and environmental conditions of radio installation.....[]

3.2 Emergency light for radio controller.....[]

3.3 Clearly marking of call sign, ship's ID and other codes.....[]

附表四-II

NATIONAL COMMUNICATIONS COMMISSION REPUBLIC OF CHINA

Record of Ship Safety Radio

4. Composition of radio installation [Reg. IV/8, 9, 10, 11 & 15]

4.1 Primary system

VHF...☐, MF...☐, MF/HF...☐, INMARSAT...☐B/☐C/☐F77

4.2 Duplicated system

VHF...☐, MF/HF...☐, INMARSAT...☐B/☐C/☐F77

4.3 Second means of alerting

INMARSAT...☐B/☐C/☐F77, VHF EPIRB...☐, INMARSAT EPIRB...☐406MHz EPIRB...☐, VHF DSC...☐, MF DSC...☐, MF/HF DSC...☐**5. Primary system(P) & duplicated system(D) [Reg. IV/7, 8, 9, 10 & 11]**

5.1 VHF radio installation

	Manufacturer	Type (Serial No.)	Channels	Approved by
P				
D				

5.1.1 Initiation of DSC distress alert on CH 70 from normal navigating position.....[]

5.1.2 Highest priority of controller in wheel house.....[]

5.1.3 Facilities of bridge wings communication.

Extension cords.....☐, Fixed handset line.....☐, Portable VHF transceiver.....☐

5.1.4 VHF DSC

Combined with VHF radio installation.....[]

Separated from VHF radio installation.....[]

—Separated VHF DSC

	Manufacturer	Type (Serial No.)	Approved by	Located at
P				
D				

5.1.5 VHF DSC watch receiver :

Combined with VHF radio installation.....[]

Separated from VHF radio installation.....[]

—Separated VHF DSC watch receiver on CH 70

	Manufacturer	Type (Serial No.)	Approved by	Located at
P				
D				

5.1.6 Printer, if provided

	Manufacturer	Type (Serial No.)
P		
D		

5.2 MF radio installation

	Manufacturer	Type (Serial No.)	Frequency range	Approved by	Located at

5.2.1 Initiation of DSC distress alert on 2187.5 kHz from navigating position.....[]

5.2.2 MF DSC

Combined with MF radio installation.....[]

Separated from MF radio installation.....[]

— Separated DSC installation

Manufacturer	Type (Serial No.)	Approved by	Located at

Page of

附表四-II

NATIONAL COMMUNICATIONS COMMISSION REPUBLIC OF CHINA

Record of Ship Safety Radio

- 5.2.3 MF DSC watch receiver
 Combined with MF radio installation.....[]
 Separated from MF radio installation.....[]
 — Separated DSC watch receiver on 2187.5 kHz.

Manufacturer	Type (Serial No.)	Approved by	Located at

- 5.2.4 Printer, if provided.

Manufacturer	Type (Serial No.)

- 5.3 MF/ HF radio installation.

	Manufacturer	Type (Serial No.)	Type of battery	Approved by	Located at
P					
D					

- 5.3.1 Initiation of DSC distress alert from normal navigating position.
☐ 2187.5 kHz ☐ 4207.5 kHz ☐ 6312 kHz ☐ 8414.5 kHz ☐ 12577 kHz ☐ 16804.5 kHz.....[]

- 5.3.2 DSC distress alert watch frequencies in normal navigating position.
☐ 2187.5 kHz ☐ 4207.5 kHz ☐ 6312 kHz ☐ 8414.5 kHz ☐ 12577 kHz ☐ 16804.5 kHz.....[]

- 5.3.3 MF/ HF DSC
 Combined with MF/ HF radio installation.....[]
 Separated from MF/ HF radio installation.....[]
 — Separated MF/ HF DSC installation

	Manufacturer	Type (Serial No.)	Approved by	Located at
P				
D				

- 5.3.4 MF/ HF DSC watch receiver
 Combined with MF/ HF radio installation.....[]
 Separated from MF/ HF radio installation.....[]
 — Separated MF/ HF DSC watch receiver

	Manufacturer	Type (Serial No.)	Approved by	Located at
P				
D				

- 5.3.5 Direct printing telegraphy
 Combined with MF/ HF radio installation.....[]
 Separated from MF/ HF radio installation.....[]
 — Separated direct printing telegraphy installation

	Manufacturer	Type (Serial No.)	Approved by	Located at
P				

5.3.6

D				
---	--	--	--	--

Printer, if provided.

	Manufacturer	Type (Serial No.)
P		
D		

Page of

附表四-II

NATIONAL COMMUNICATIONS COMMISSION REPUBLIC OF CHINA

Record of Ship Safety Radio

6. INMARSAT ship earth station. [Reg. IV/10 & 11]

	INMARSAT <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> F77	Manufacturer	Type (Serial No.)	Approved by	Located at
P					
D					

- 6.1 Initiation of distress alert from normal navigation position.....[]
- 6.2 Antenna situation.....[]
as high as possible.....[]
in such a position that no obstacles to significantly degrade the performance.....[]
- 6.3 In case of INMARSAT B, INMARSAT F77 or other tracking antenna.....[]
Continuous supply of ship's heading information

7. MSI receiving facilities [Reg. IV/7 & 12]

7.1 NAVTEX receiver

Manufacturer	Type (Serial No.)	Approved by	Located at

- 7.2 EGC receiver/ decoder
built in INMARSAT-C.....[]
added to INMARSAT-B.....[]
added to INMARSAT-F77.....[]
separated from INMARSAT SES.....[]
— Separated/ added type of EGC receiver or decoder

Manufacturer	Type (Serial No.)	Approved by	Located at

- 7.3 HF NBDP receiver
built in MF/ HF radio installation.....[]
separated from MF/ HF.....[]
— Separated HF NBDP receiver

Manufacturer	Type (Serial No.)	Approved by	Located at

8. EPIRB [Reg. IV/6.4, 7]

- 8.1 VHF EPIRB (In case of ship navigating only in A1 Area).....[]

Manufacturer	Type (Serial No.)	Approved by	Located at

- 8.2 Satellite EPIRB
COSPAS-SARSAT system (406 MHz).....[]
INMARSAT system (1.6 GHz).....[]

	Manufacturer	Type (Serial No.)	Approved by	Located at	Homing Freq.
No. 1					
No. 2					

- 8.3 Float-free release and activation arrangements

Manufacturer	Type (Serial No.)	Approved by

No. 1			
No. 2			

9. Search and rescue locating devices [Reg. IV/7]

9.1 One of those required by Reg. III/ 6.2.2 for survival craft.....[]

9.2 Use exclusively on board ship.....[]

Search and rescue locating devices (☐Radar transponder/☐AIS-SART) used exclusively.

Manufacturer	Type (Serial No.)	Approved by	Located at

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NATIONAL COMMUNICATIONS COMMISSION REPUBLIC OF CHINA

Record of Ship Safety Radio

10. Radiotelephone distress frequency facilities on 2182 kHz [Reg. IV/7]

10.1 Radiotelephone distress frequency watch receiver

Manufacturer	Type (Serial No.)	Approved by	Located at

10.2 Radiotelephone alarm signal generator

Manufacturer	Type (Serial No.)	Approved by	Located at

11. Position updating

Automatically provided by ☐GPS, ☐GLONASS, ☐.....[]

Manually updated[]

12. Documents [Reg. IV/17 & Appendix II Sec. VA of ITU Radio Regulation]

12.1 Radio Station License.....[]

12.2 * Certificates of radio personnel.....[]

12.2 Radio log.....[]

12.3 List of coast station.....[]

12.4 List of ship station.....[]

12.5 Manual for use by maritime mobile and maritime mobile-satellite service.....[]

13. Other equipment where provided

Item	Manufacturer	Type

14. Particular of any special features or additional information

Item number (*)	DESCRIPTION

15. Equipment renewals, alterations and/or additions effected since the record was prepared.

Item number (*)	DESCRIPTION	Surveyor	Port	Date

Port
Date

Surveyor
Technician

※
: This item is not required.

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of

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(參考範例)

船舶無線電臺審驗申請書 ☐書面 ☐傳真

年 月 日 時 分

本(船舶所有人)為 (船名) 船舶,申請 字第
號

☐新設船舶無線電臺/☐船舶用無線電對講機(娛樂漁業漁船)

☐換發船舶無線電臺執照

☐增設船舶無線電信設備

請貴處派員於下列約定時間地點審驗船舶無線電信設備:

一、約定時間: 年 月 日 上午 時 分

二、約定地點: 岸第 號碼頭
浮筒

此致

☐北

國家通訊傳播委員會☐中區監理處

☐南

船舶所有人:

住址:

電話: ()

傳真: ()

受委託人(代理經辦廠商):

住址:

電話: ()

傳真: ()

印章

印章

以下為受理單位填寫

收件:

☐合格 ☐不合格

備註: 審驗不合格者,應於 年 月 日前申請複
驗,並以一次為限。