

Check List for the 2012 Cape Town Agreement (Chapter II~VII)

(only for existing Fishing Vessel service in Falkland Islands)

漁船安全國際公約章節內容		評估建議報告(改善報告、豁免項目、風險評估)			
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第 II 章 構造、水密完整性及設備 Chapter II Construction, watertight integrity and equipment					
II-1	構造 Construction				
II-1	<p>檢查船體完整性、船殼、上層建築、甲板室、機艙棚、樓梯間及任何其他結構保持在適當的狀態</p> <p>Examining the hull integrity, shell, deck, superstructures, deckhouses, machinery casings, companionways and any other structures are maintained in proper condition</p>				
II-1(3)	<p>檢查防碰艙壁、機艙邊界之水密艙壁等及其艙壁上的關閉裝置和開口蓋保持水密狀態</p> <p>Examining the collision bulkhead, watertight bulkheads bounding the main machinery space, closing devices and closures of openings in these bulkheads are maintained in watertight condition</p>				
II-1(4)	<p>檢查穿過防碰艙壁的管路具有可在工作甲板上操作的閘，閘應牢固的安裝在防碰艙壁上的艙尖艙一側並保持在適當的狀態</p> <p>Examining the pipes piercing the collision bulkhead is fitted with suitable valves operable from above the working deck and the valve chest is secured at the collision bulkhead inside the forepeak and maintained in proper condition</p> <p>注意：工作甲板以下的防撞艙壁上不得設置門、人孔、通風導管或任何其他開口 NOTE : No door, manhole, ventilation duct or any other opening shall be fitted in the collision bulkhead below the working deck</p>				
II-2	水密門 Watertight doors				
II-2(1)	<p>檢查水密門，見上文 II-1(3)</p> <p>Examining the watertight doors, see II-1(3) above</p>				
II-2(2)	<p>檢查鉸鍊式水密門可於兩側正常操作，且其兩側應有警示以說明該門在海上時應保持關閉</p> <p>Checking the hinged type door is capable of being operated locally from each side of the door and a notice is attached to the door on each side to state that the door shall be kept closed at sea.</p>				
II-2(3)	<p>對 L (船長) ≥45 m 的船舶，檢查 II-2(3)所規定處所的水密門為滑動式且功能正常</p> <p>For vessel 45 m ≤ L(vessel length), Examining the watertight doors required by Reg II-2(3) is of the sliding type</p>				
II-2(5), (6)	<p>檢查滑動式水密門可於兩側就地操作且情況良好。</p> <p>Checking the Sliding watertight doors is capable of being operated locally from each side of the door and functioning in order.</p> <p>註 NOTE :</p>				

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	L (船長) ≥45 m 的船舶，除設置於船舶起居處所之水密門外，水密門應能從工作甲板上可到達的位置遙控操作並具備顯示其開關狀態的裝置 For vessels of 45 m in length and over, these doors shall also be capable of being operated by remote control from an accessible position above the working deck except when the doors are fitted in crew accommodation spaces.Means shall be provided at remote operating positions to indicate when a sliding door is open or closed.				
II-3	船體完整性 Hull integrity				
II-3(1)	檢查外部開口應能夠關閉以防止水進入船內 Examining the external openings shall be capable of being closed so as to prevent water from entering the vessel.				
II-4	風雨密門 Weathertight doors				
II-4(1)	檢查封閉船艙及其他外部結構艙壁上的所有風雨密門應保持在適當狀態，並能正常地由艙壁兩側操作 Examining all weathertight doors permanently attached to the bulkheads of enclosed superstructures and other outer structures are maintained in proper condition and can be operated from each side of the bulkhead				
II-4(2)	檢查出入口門檻在甲板以上的高度，在工作甲板上至少 600 mm，在上層建築甲板上至少 300 mm Checking the height above deck of sills in those doorways, at least 600 mm on the working deck and at least 300 mm on the superstructure deck				
II-5	用木蓋關閉艙口 Hatchways closed by wood covers				
II-5(1)	檢查艙口緣圍板在甲板以上的高度，在工作甲板外露部分上至少 600 mm，在上層建築甲板上至少 300 mm Checking the height above deck of hatchway coamings, at least 600 mm on exposed parts of the working deck and at least 300 mm on the superstructure deck				
II-5(3)	檢查繫固木質艙口蓋風雨密的裝置應保持在適當狀態 Examining the arrangements for securing wood hatchway covers weathertight shall be maintained in proper condition				
II-6	用非木質蓋關閉艙口 Hatchways closed by covers other than wood				
II-6(1)	檢查艙口緣圍板在甲板以上的高度應按上述 II-5(1) Checking the height above deck of hatchway coamings shall be as II-5(1) above				
II-6(5)	檢查繫固艙口蓋風雨密的裝置應保持在適當狀態 Examining the arrangements for securing hatchway covers weathertight shall be maintained in proper condition				
II-7	機艙開口 Machinery space openings				
II-7(1)	檢查機艙開口的風雨密門，見上文 II-4(1)				

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	Examining the weathertight doors for Machinery space openings, see II-4(1) above				
II-7(2)	檢查除通道開口以外的開口的風雨密蓋能夠風雨密關閉 Examining the weathertight covers for the openings other than access openings are capable of being closed weathertight				
II-8	其它甲板開口 Other deck openings				
II-8(1)	檢查永久連接到相鄰結構的平甲板天窗及人孔應能水密關閉 Examining the flush deck scuttles and manholes permanently attached to the adjacent structure are capable of being closed watertight				
II-9	通風筒 Ventilators				
II-9(1) II-9(3)	45 m ≤ L(船長)的船舶，除機艙通風筒緣圍板外，檢查通風筒緣圍板在甲板以上的高度(H)：在工作甲板上為 900 mm ≤ H 及在上層建築甲板上為 760 mm ≤ H。對於船舶 L < 45 m：分別為 760 mm ≤ H 及 450 mm ≤ H Checking the height (H) above deck of ventilator coamings, other than machinery space ventilator coamings, for vessel 45 m ≤ L (vessel length): 900 mm ≤ H on the working deck and 760 mm ≤ H on the superstructure deck, for vessel L < 45 m: 760 mm ≤ H and 450 mm ≤ H respectively 註：除非主管機關特別要求，在長度為 45 米及以上的船舶上，當其通風筒圍板高出工作甲板 4.5m 以上或高出上層建築甲板 2.3m 以上時，則不需設置關閉裝置；在長度為 45 米以下的船舶上，當其通風筒圍板的高度高出工作甲板 3.4m 或高出上層建築甲板 1.7m 時，也不需要設置關閉裝置。如果主管機關認為海水不大可能通過機器處通風筒進入船內，則這些通風筒的關閉裝置可省略 NOTE：Closing appliances in vessels of 45 m in length and over need not be fitted to ventilators the coamings of which extend to more than 4.5 m above the working deck or more than 2.3 m above the superstructure deck unless specifically required by the Administration. In vessels of less than 45 m in length, closing appliances need not be fitted to ventilators the coamings of which extend to more than 3.4 m above the working deck or more than 1.7 m above the superstructure deck. If the Administration is satisfied that it is unlikely that water will enter the vessel through machinery space ventilators, closing appliances to such ventilators may be omitted				
II-10	空氣管 Air pipes				
II-10(1)	檢查空氣管開口的關閉裝置應保持在適當的狀態 Examining the closing means for the openings of air pipes shall be maintained in proper condition				
II-10(2)	檢查空氣管在甲板以上至水可能進入下方的點的高度 (H)，在工作甲板上 760 mm ≤ H，在上層建築甲板上 450mm ≤ H Checking the height (H) of air pipes above deck to the point where water may have access below, 760 mm ≤ H on the working deck and 450 mm ≤ H on the superstructure deck				
II-11	測深管 Sounding devices				
II-11(2)	檢查 II-11(1)所述之位置已安裝測深裝置且保持適當的狀態				

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	Examining the Sounding devices is fitted in accordance with Reg. II-11(1) and is maintained in proper condition				
II-12	舷窗和窗 Side scuttles and windows				
II-12(1)	檢查工作甲板下方空間的舷窗及該甲板上封閉結構內空間的舷窗，該舷窗裝有能夠關閉水密的鉸鍊式舷窗蓋應保持適當的狀態 Checking the side scuttles to spaces below the working deck and to spaces within the enclosed structures on that deck fitted with hinged deadlights capable of being closed watertight shall be maintained in proper condition				
II-12(2)	確認沒有舷窗安裝在其下緣距最深操作水線少於 500 mm 的位置 Confirming that no side scuttle fitted in such a position that its sill is less than 500 mm above the deepest operating waterline				
II-12(3)	確認安裝在最深操作水線以上少 1,000 mm 內的舷窗為固定式 Confirming the side scuttles fitted less than 1,000 mm above the deepest operating waterline are fixed type.				
II-12(4)	確認舷窗連同其玻璃及內蓋應為經認可的結構 Checking the side scuttles, together with their glasses and deadlights shall be of an approved construction				
II-12(5)	確認駕駛室窗戶使用強化安全玻璃或同等材料 Checking the toughened safety glass or its equivalent are used for the wheelhouse windows				
II-13	進水及排水口 Inlets and discharges				
II-13(1)	檢查會導致浸水的穿過船殼的排水口裝設易於觸及的防止海水進入船內的裝置(通常為自動止回閥，且設有易於到達位置上的強制關閉裝置並須有顯示閥門開/關的指示器)，且皆應保持適當的狀態 Checking the accessible means for preventing water from passing inboard is maintained in proper condition (Normally each separate discharge have an automatic non-return valve with a positive means of closing it from an accessible position and with an indicator showing whether the valve is open or closed)				
II-13(2)	確認有人值班機器處所內其機器工作所必需的海水進、出口閥可就地控制並配有顯示閥門開/關的指示器。且應保持適當的狀態 Confirming the sea inlets and discharges essential for the operation of machinery, in manned machinery spaces, can be controlled locally and provided with indicators showing whether the valves are open or closed, and is maintained in proper condition				
II-13(3)	確認船殼和閥上的屬件為鋼、青銅或其他經認可之韌性材料。船殼和閥門之間的管材須為鋼質				

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	Confirming the shell and the valves required by this regulation are of steel, bronze or other approved ductile material. All pipes between the shell and the valves shall be of steel				
II-14 舷牆排水口 Freeing ports					
II-14(1)	<p>確認在工作甲板及船樓甲板的露天部分的排水口面積是否符合國際漁船安全規則第 II 章規則 14 (1)~ (3)的要求</p> <p>Confirming that whether the freeing port area on weather parts of the working deck and superstructure deck complying with the requirements of Chapter II Regulation 14 (1)~(3) of International Regulations for the Safety of Fishing Vessels</p>				
II-14(5)	<p>確認磅板及漁具堆放裝置之布置，應不會影響排水口的有效性</p> <p>Confirming that pound boards and means for stowage of the fishing gear shall be arranged so that the effectiveness of freeing ports will not be impaired</p>				
II-14(6)	<p>確認深度超過 300 mm 的排水口應安裝間距不超過 230 mm 或不小於 150 mm 的鋼條，或提供其他合適的保護裝置</p> <p>Confirming the freeing ports over 300 mm in depth to be fitted with bars spaced not more than 230 mm or less than 150 mm apart or provided with other suitable protective arrangements</p>				
II-14(7)	<p>在結冰區域作業的船舶，檢查移除排水口的蓋板及保護裝置的設施以限制積冰</p> <p>Examining the means provided for removal of cover and protective arrangements of freeing ports to restrict ice accretion for vessels s intended to operate in areas subject to icing</p>				
II-15 錨與繫泊設備 Anchor and mooring equipment					
II-15	<p>檢查快速安全操作的錨設備，包括拋收錨設備、錨鍊或鋼纜、制動器及捲揚機或其他佈置應處於適當狀態；以及在所有操作條件下安全繫泊的足夠繫泊設備。錨和繫泊設備應經主管機關滿意</p> <p>Examining the anchor equipment for quick and safe operation which shall consist of anchoring equipment, anchor chains or wire ropes, stoppers and a windlass or other arrangements shall be in proper condition ; and adequate mooring equipment for safe mooring in all operating conditions. Anchor and mooring equipment shall be to the satisfaction of the Administration</p>				
第 III 章 穩度與相關的適航性 Chapter III Stability and Associated Seaworthiness					
III-1~14	<p>確認穩度與相關的適航性是否符合國際漁船安全規則第 III 章規則 1 ~14 的要求</p> <p>Confirming that whether the Stability and Associated</p>				

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	Seaworthiness complying with the requirements of Chap.III Reg. 1~14 of International Regulations for the Safety of Fishing Vessels III-1 通則 General ; III-2 穩度基準 Stability criteria ; III-3 漁艙浸水 Flooding of fish-holds ; III-4 特殊捕漁法 Particular fishing methods ; III-5 颶風與橫搖 Severe wind and rolling ; III-6 甲板上的水 Water on deck ; III-7 作業條件 Operating conditions ; III-8 積冰 Ice accretion ; III-9 傾斜試驗 Inclining test ; III-10 穩度資料 Stability information ; III-11 活動漁櫃 Portable fish-hold divisions ; III-12 船艙高度 Bow height ; III-13 最大允許作業吃水 Maximum permissible operating draught ; III-14 艙區劃分與破損穩度 Subdivision and damage stability				
第 IV 章 機械與電氣裝置與定期無人當值機艙 (適用於船舶 45 m ≤ L) Chapter IV Machinery and Electrical Installations and Periodically Unattended Machinery Spaces (Apply to vessels 45 m ≤ L)					
IV-A3	機械裝置 Machinery installations :				
IV-A3(1)	確認機械裝置、電氣裝置及定期無人當值的機艙之設計、製造、試驗、安裝與維修應經主管機關滿意。 Confirming that the machinery installations, electrical installations and periodically unattended machinery spaces shall be designed, constructed, tested, installed and serviced to the satisfaction of the Administration				
IV-A3(2)	確認機艙之設計應能使人安全且自由地到達所有機械及其控制裝置以及任何其他需要保養維修的部件，並確認機艙應充分通風 Confirming that machinery spaces shall be so designed as to provide safe and free access to all machinery and its controls as well as to any other parts which may require servicing, and such spaces shall be adequately ventilated.				
IV-A3(3)(a)	確認即使其中一個主要輔助設備失效應提供能維持或恢復裝置正常運轉能力 Confirming that means shall be provided whereby the operational capability of the propulsion machinery can be sustained or restored				

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	even though one of the essential auxiliaries becomes inoperative				
IV-A3(3)(b)	<p>確認在沒有外部援助的情況下應提供機械能從呆船狀況投入運行的設施</p> <p>Confirming that means shall be provided whereby the machinery can be brought into operation from the dead ship condition without external aid</p>				
IV-A3(6)(b)	<p>電氣裝置 Electrical installations :</p> <p>確認當主電源發生故障時，電氣裝置提供對安全至關重要的服務；以及保護船員及船舶免受電氣危害</p> <p>Confirming the electrical installations provided services essential to safety when failure of the main source of electrical power occurs; and protection of the crew and vessel from electrical hazards</p>				
IV-A3(10)	<p>定期無人當值的機艙 Periodically unattended machinery spaces :</p> <p>確認船舶提供經主管機關滿意的證明文件，證明其適合在定期無人當值的機艙內操作 Confirming the vessels provided with documentary evidence, to the satisfaction of the Administration, of their fitness to operate with periodically unattended machinery spaces</p>				
IV-B4	機械 Machinery				
IV-B4(1)	<p>確認主要用於船舶推進與安全之主機及輔機的控制裝置處在有效狀況</p> <p>Confirming the means of control of main and auxiliary machinery essential for the propulsion and safety are in effective condition</p>				
IV-B4(2)	<p>確認氣缸直徑大於 200 mm 或曲軸箱容積大於 0.6 m³ 的內燃機裝有經認可的具有足夠釋放面積的曲軸箱防爆安全閥</p> <p>Confirming the internal combustion engines of a cylinder diameter greater than 200 mm or a crankcase volume greater than 0.6 m³ provided with crankcase explosion relief valves of an approved type with sufficient relief area</p>				
IV-B4(3)	<p>在主機或輔機包括壓力容器或此類機械的任何部件承受內部壓力並可能承受危險的超壓時，確認設有安全閥或洩壓閥並正常工作</p> <p>Where main or auxiliary machinery including pressure vessels or any parts of such machinery are subject to internal pressure and may be subject to dangerous overpressure, confirming that provided with safety valve or relief valve and which working in order</p>				
IV-B4(5)	<p>確認主機與輔機滑油低壓提前警報及自動停俾裝置工作正常。</p> <p>Confirming the advance alarm and automatic shut-off device working in order for L.O. low pressure, cooling F.W. high temperature and over speed of main and auxiliary machinery</p>				

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IV-B5~ B15	<p>檢查、確認下列各項 Examining / confirming the following items:</p> <p>B5 倒車裝置 Means of going astern ;</p> <p>B6 蒸汽鍋爐、給水系統及蒸汽管路布置 Steam boilers, feed systems and steam piping arrangements ;</p> <p>B7 駕駛室與機艙之間的通信 Communication between the wheelhouse and machinery space ;</p> <p>B9 壓縮空氣系統 Air pressure systems ;</p> <p>B12 噪音防護 Protection against noise(for vessel 75 m ≤ L) ; –</p> <p>B14 輪機員警報 Engineers' alarm(for vessel 75 m ≤ L) ;</p> <p>B15 漁獲物保鮮製冷 Refrigeration systems for the preservation of the catch</p>				
IV-B8	<p>如擬從駕駛室遙控推進機械，確認設有適當的裝置，如有必要並包括控制、監視、報告、報警和安全措施</p> <p>confirming that appropriate means are provided where it is intended that the propulsion machinery should be remotely controlled from the navigating bridge, including, where necessary, the control, monitoring, reporting, alert and safety actions</p>				
IV-B8	<p>確認從機器控制室操作主機和其他機器的佈置令人滿意</p> <p>confirming that arrangements to operate main and other machinery from a machinery control room are satisfactory</p>				
IV-B8	<p>確認在一般情況下配備手動越控自動控制的裝置，並且任何故障均不致妨礙手動越控的使用</p> <p>confirming that, in general, means are provided for manually overriding automatic controls and that a failure does not prevent the use of the manual override</p>				
IV-B10	<p>確認為防止在壓力作用下可能從任何油泵、過濾器或加熱器漏出的任何油與熱表面接觸所採取的預防措施是有效的</p> <p>confirming that precautions, taken to prevent any oil that may escape under pressure from any pump, filter or heater from coming into contact with heated surfaces, are efficient</p>				
IV-B10	<p>確認用於確定任一油艙所存油量的裝置處於良好工作狀態</p> <p>confirming that the means of ascertaining the amount of oil contained in any oil tank are in good working condition</p>				
IV-B10	<p>確認在任一油艙或燃油系統的任何部分，包括注油管，為防止超壓而設置的裝置處於良好工作狀況</p> <p>confirming that the devices provided to prevent overpressure</p>				

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	in any oil tank or in any part of the oil system, including the filling pipes, are in good working condition				
IV-B10	<p>確認首尖艙不擬用於裝載燃油、滑油等和其他易燃油類</p> <p>confirming that forepeak tanks are not intended for carriage of oil fuel, lubrication oil and other flammable oils</p>				
IV-B10	<p>檢查燃油、滑油和其他易燃油類的佈置，並試驗燃油、滑油和其他易燃油類閥的遙控關閉和裝有燃油、滑油和其他易燃油類液艙的閥門遙控關閉裝置的操縱功能</p> <p>examining the arrangements for oil fuel, lubricating oil and other flammable oils and testing the remote closing of valves for oil fuel, lubricating oil and other flammable oils and the operation of the remote means of closing the valves on the tanks that contain oil fuel, lubricating oil and other flammable oils</p>				
IV-B11	<p>檢查艙底排水設備的佈置，並確認每一水密艙的每台艙底泵和艙底排水系統均能有效工作</p> <p>Checking the ballasting arrangements, confirming that each bilge pump and the bilge pumping system provided for each watertight compartment are working efficiently</p>				
IV-B13(1)	<p>確認主操舵裝置和輔助操舵裝置的佈置可使其中之一在發生故障時，不會導致另一裝置不能工作</p> <p>Confirming that the main and auxiliary steering gear are so arranged that the failure of one of them does not render the other inoperative</p>				
IV-B13(6)~(9)	<p>確認主操舵裝置和輔助操舵裝置具有足夠的強度並能在 B13(6)~(9) 所訂之船速下操作船舶</p> <p>confirming that the main and auxiliary steering gear are of adequate strength and sufficient to steer the vessel at speed required by Reg. B13(6)~(9)</p>				
IV-B13	<p>確認當電源發生故障後恢復供電時，主操舵裝置或輔助操舵裝置的動力設備能自動重新起動，並能從駕駛室某一位置對其進行操作，且任何一台操舵裝置的動力設備發生動力故障時，在駕駛室發出聽覺和視覺報警</p> <p>Confirming that the main and auxiliary steering gear power units restart automatically when power is restored after a power failure, that they are capable of being brought into operation from a position on the navigating bridge and that, in the event of a power failure to any one of the steering gear</p>				

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	power units, an audible and visual alarm is given on the navigating bridge				
IV-B15	<p>檢查、確認 Examining / confirming</p> <p>凡設有製冷機組（包括使用有毒製冷劑的冷凝器和貯氣罐）的任何處所，須以氣密艙壁與相鄰艙室隔開。凡設有製冷機組（包括冷凝器和貯氣罐）的任何處所，須裝有洩露探測系統，並在處所外鄰近入口處設有指示器，並須具有獨立的通風系統和噴水系統。(上述要求因船舶尺度而不切合實際時，製冷系統可安裝在機器處所內，但所用製冷劑的劑量一旦全數逸出時，將不致危害機器處所中的人員，並須設有警報器，在該處所中發生的任何洩漏達到危險濃度時發出警報)</p> <p>Any space containing refrigerating machinery including condensers and gas tanks utilizing toxic refrigerants shall be separated from any adjacent space by gastight bulkheads. Any space containing the refrigerating machinery including condensers and gas tanks shall be fitted with a leak detection system having an indicator outside the space adjacent to the entrance and shall be provided with an independent ventilation system and a water spray system.</p> <p>(b) When such containment is not practicable, due to the size of the vessel, the refrigeration system may be installed in the machinery space provided that the quantity of refrigerant used will not cause danger to persons in the machinery space, should all the gas escape, and provided that an alarm is fitted to give warning of a dangerous concentration of gas should any leakage occur in the compartment</p>				
IV-C	電氣裝置 Electrical Installations				
IV-C16	主電源 Main source of electrical power				
IV-C16(1)(a)	<p>確認船上至少配備 2 台發電機組，其中一台可由主機驅動，用於維持供船舶正常操作和居住條件所需之設施。</p> <p>Confirming that at least 2 generating sets provided onboard , one of which may be driven by the main engine for the services necessary to maintain the vessel in normal operational and habitable conditions</p>				
IV-C16(1)(b)	<p>確認這些發電機組的功率，須能在任一發電機組停機時，仍能維持第 3(6)(a)條所要求之設施所需之電力，惟不須包含捕魚作業、漁獲物加工和保鮮等設施。</p> <p>Confirming the power of these sets shall be such as to ensure the functioning of the services referred to in regulation 3(6)(a),</p>				

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	excluding the power required in fishing activities, processing and preservation of the catch, in the event of any one of these generating sets being stopped.				
IV-C16(2)(a)	<p>確認主照明系統之布置，應為主電源（包括變壓器，如果有的話）所在的一個或多個空間發生火災或其他事故不會導致應急照明系統失效</p> <p>Confirming the arrangement of the main lighting system shall be such that a fire or other casualty in the space or spaces containing the main source of electrical power, including transformers, if any, will not render the emergency lighting system inoperative.</p>				
IV-C16(2)(b)	<p>確認應急照明系統之布置，應為應急電源（包括變壓器，如果有的話）所在的一個或多個空間發生火災或其他事故不會導致主照明系統失效</p> <p>Confirming that the arrangement of the emergency lighting system shall be such that a fire or other casualty in the space or spaces containing the emergency source of electrical power, including transformers, if any, will not render the main lighting system inoperative</p>				
IV-C17	<p>檢查或確認應急電源符合 IV-C17 規定</p> <p>Examining or confirming the emergency source of electrical power complying with the requirements of IV-C17</p>				
IV-C18	<p>檢查或確認電擊、火災和其他電氣危險的預防措施符合 IV-C18 規定</p> <p>Examining or confirming the precautions against shock, fire and other hazards of electrical origin complying with the requirements of IV-C18</p>				
IV-D	定期無人當值機艙 Periodically Unattended Machinery Spaces				
IV-D19	定期無人當值機艙 Periodically Unattended Machinery Spaces: 消防安全 Fire safety				
	定期無人當值機艙 Periodically Unattended Machinery Spaces: 火災預防 Fire prevention				
IV-D19(1)	<p>確認高壓燃油管路之洩漏應收集在合適的排放油櫃，其應提供高液位警報。</p> <p>Confirming where leakages from high pressure fuel oil pipes shall be collected in a suitable drain tank which shall be provided with a high-level alarm.</p>				
IV-D19(2)	<p>確認可自動或遠端加油之日用燃油櫃，應提供防止溢流溢出的裝置</p> <p>Confirming where daily service fuel oil tanks are filled automatically or by remote control, then means shall be provided to prevent overflow spillages</p>				
IV-D19(3)	<p>確認裝設加熱裝置之日用燃油櫃或沉澱櫃，若其溫度可能會超過燃油閃點，則應提供高溫警報</p> <p>Confirming where fuel oil daily service tanks or settling tanks are</p>				

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	fitted with heating arrangements, then a high temperature alarm provided if the flashpoint of the fuel oil can be exceeded.				
定期無人當值機艙 Periodically Unattended Machinery Spaces:火災探測 Fire detection					
IV-D19(4)	<p>確認機艙內安裝經認可的基於自行監測原則及包括定期測試設施的火災探測系統</p> <p>Confirming that an approved fire detection system based on a self-monitoring principle and including facilities for periodical testing installed in machinery spaces</p>				
IV-D19(5)	<p>當船舶在港口時，確認檢測系統應在駕駛室和足夠的適當空間內啟動聽覺及視覺警報，以便船上人員聽到和看到</p> <p>Confirming the detection system shall initiate both audible and visual alarm in the wheelhouse and in sufficient appropriate spaces to be heard and observed by persons on board, when the vessel is in harbor</p>				
IV-D19(6)	<p>確認火災探測系統在主電源故障時自動從應急電源供電</p> <p>Confirming the fire detection system fed automatically from an emergency source of power if the main source of power fails</p>				
IV-D19(7)	<p>確認 2500 kW 及以上的內燃機應配備曲軸箱油霧檢測器或發動機軸承溫度檢測器或等效裝置</p> <p>Confirming the internal combustion engines of 2500 kW and over shall be provided with crankcase oil mist detectors or engine bearing temperature detectors or equivalent devices</p>				
定期無人當值機艙 Periodically Unattended Machinery Spaces:滅火 Fire fighting					
IV-D19(8)	<p>確認提供令主管機關滿意的固定式滅火系統</p> <p>Confirming a fixed fire-extinguishing system provided to the satisfaction of the Administration</p>				
IV-D19(9)	<p>確認 75 m ≤ L(船長)的船舶通過以下裝置從消防總管系統立即供水：</p> <p>Confirming that in vessels of 75 m ≤ L m (vessel length), provision made for immediate water delivery from the fire main system either by:</p> <p>(a) 在駕駛室和消防控制站(如有)的其中一台主消防泵遠端啟動裝置；或者</p> <p>remote starting arrangements of one of the main fire pumps in the wheelhouse and at the fire control station, if any; or</p> <p>(b)消防總管系統永久加壓，適當考慮凍結的可能性</p> <p>permanent pressurization of the fire main system, due regard being paid to the possibility of freezing</p>				

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IV-D20	浸水防護 Protection against flooding				
IV-D20(1)	確認機艙底水應配備探測系統，在持續當值的場所發出高液位聲光警報 Confirming the bilges in machinery spaces shall be provided with a detection system to initiate a high level audible and visual alarm in the places where continuous watch is maintained.				
IV-D21	通信 Communications				
IV-D21	確認在 $75\text{ m} \leq L\text{ m}$ (船舶長度) 的船舶，2 種獨立通信方式中的 1 種應為可靠的語音通信。在駕駛室和輪機員住艙之間應提供額外可靠的語音通信裝置 Confirming that in vessels of $75\text{ m} \leq L\text{ m}$ (vessel length), 1 of the 2-separate means of communication shall be a reliable vocal communication. An additional reliable means of vocal communication shall be provided between the wheelhouse and the engineers' accommodation				
IV-D22	警報系統 Alarm system				
IV-D22(1)	確認應提供警報系統以指示需要注意的任何故障 Confirming that an alarm system shall be provided to indicate any fault requiring attention				
IV-D22(2)(a)	確認警報系統應能在機艙內發出聲音警報，並在適當位置以視覺方式指示每個單獨的警報功能 Confirming the alarm system shall be capable of sounding an audible alarm in the machinery space and indicate visually each separate alarm function at a suitable position				
IV-D22(2)(b)	確認警報系統通過選擇開關連接到輪機員的房間，以確保連接到這些房間的其中一個及輪機員的公共房間 (如果有)。Confirming the alarm system have a connection to the engineers' cabins through a selector switch to ensure connection to one of those cabins and to the engineers' public rooms, if any.				
IV-D22(2)(c)	確認如果警報功能在限定時間內未引起注意，應作動輪機員警報和駕駛室當值人員警報 Confirming an engineers' alarm and an alarm to the wheelhouse for persons on watch shall be activated if an alarm function has not received attention within a limited period				
IV-D22(2)(d)	對任何需要當值負責人採取行動或引起他注意的情況，應確認在駕駛室啟動聽覺與視覺警報 Confirming the audible and visual alarms to be activated in the wheelhouse for any situation requiring action by the responsible person on watch or which brought to his attention				
IV-D22(2)(e)	確認警報系統盡可能根據故障安全原則設計 Confirming the alarm system as far as practicable being designed on the fail-safe principle				
IV-	確認警報系統持續供電，在失去正常供電的情況下自動切換到備用電				

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D22(3)(a))	源；及 Confirming the alarm system being continuously powered with automatic change-over to a stand-by power supply in case of loss of normal power supply; and				
IV-D22(3)(b)	由正常電源故障而啟動 activated by failure of the normal power supply				
IV-D22(4)(a)	確認警報系統能同時指示一個以上的故障，接受任何一個警報不應抑制另一個警報 Confirming the alarm system to be able to indicate at the same time more than one fault and the acceptance of any alarm do not inhibit another alarm				
IV-D22(4)(b)	確認在 IV-D22 (2)(a)所指位置可接受任何警報情況，須在其顯示的位置標明。警報應維持到它們被接受為止，並且視覺指示應保持到故障被糾正為止。故障排除後，所有警報應自動復位 Confirming the acceptance at the position referred to in IV-D22(2)(a) of any alarm condition shall be indicated at the positions where it was shown. Alarms shall be maintained until they are accepted and the visual indications shall remain until the fault has been corrected. All alarms shall automatically reset when the fault has been rectified.				
IV-D23	機械、鍋爐及電氣裝置的特殊要求 Special requirements for machinery, boiler and electrical installations				
IV-D23(1)	在 $75\text{ m} \leq L\text{ m}$ (船長) 的船舶，主要電源應按以下方式提供： Confirming that in vessels of $75\text{ m} \leq L\text{ m}$ (vessel length), the main source of electrical power shall be supplied as follows:				
IV-D23(1)(a)	確認在電力通常可由一台發電機供應的情況下，應提供適當的減載安排，以確保推進和操舵所需設施的供應完整性。為了應對發電機在運行中發常故障之情況，應有足夠的措施自動啟動並連接到備用發電機的主要配電盤，備用發電機具有足夠的容量以允許推進和操舵，並自動重新啟動重要輔助設備，包括在必要時進行連續操作 Confirming where the electrical power can normally be supplied by one generator, there shall be provided suitable load shedding arrangements to ensure the integrity of supplies to services required for propulsion and steering. To cover the case of loss of the generator in operation, there shall be adequate provisions for automatic starting and connecting to the main switchboard of a stand-by generator of sufficient capacity to permit propulsion and steering and with automatic restarting of the essential auxiliaries including, where necessary, sequential operations				
IV-	確認若電力是由多台發電機組供電，則應提供減載安排，以確保其中				

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D23(1)(b)	一個發電機組中故障的情況下，其餘的發電機組在沒有過載的情況下保持運行，以允許推進和操舵 Confirming if the electrical power is supplied by more than one generating set, there shall be provided load shedding arrangements, to ensure that, in case of loss of one of these generating sets, the remaining ones are kept in operation without overload to permit propulsion and steering				
IV-D23(2)	如果要求配置雙套設備，主要用於推進的其他輔助機械應配備自動轉換裝置，以便轉換為備用機器。自動切換時應發出警報 Confirming where required to be duplicated, other auxiliary machinery essential to propulsion shall be fitted with automatic change-over devices allowing transfer to a stand-by machine. An alarm shall be given on automatic change-over				
IV-D23(3)	應提供以下自動控制及警報系統： Automatic control and alarm systems shall be provided as follows:				
IV-D23(3)(a)	確認控制系統須能通過必要的自動裝置確保主推進機械及其輔助設備運作所需的設施 Confirming the control system shall be such that, through the necessary automatic arrangements, the services needed for the operation of the main propulsion machinery and its auxiliaries are ensured;				
IV-D23(3)(b)	當內燃機用作主推進裝置時，應確認提供保持啟動空氣壓力的措施 Confirming the means shall be provided to keep the starting air pressure at the required level where internal combustion engines are used for main propulsion				
IV-D23(3)(c)	所有重要的壓力、溫度、液位等，應確認提供符合第 IV-D22 條的警報系統；及 Confirming an alarm system complying with regulation IV-D22 shall be provided for all important pressures, temperatures, fluid levels, etc.; and				
IV-D23(3)(d)	如適當時，應確認在適當的中心位置，布置必要的警報面板與指示任何警報故障的儀表 Confirming where appropriate, an adequate central position shall be arranged with the necessary alarm panels and instrumentation indicating any alarmed fault				
IV-D24	安全系統 Safety system				
IV-D24	確認應提供安全系統，以便在機械或鍋爐運行中會造成立即危險的嚴重故障，應啟動該部分裝置的自動關閉並發出警報。推進系統的關閉不得自動啟動，除非可能導致嚴重損壞、完全故障或爆炸。如果裝有超越主推進機械關閉的裝置，則這些裝置應能防止意外啟動。應提供視覺裝置以顯示它是否已啟動 Confirming that a safety system shall be provided so that serious				

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	malfunction in machinery or boiler operations, which presents an immediate danger, shall initiate the automatic shutdown of that part of the plant and an alarm shall be given. Shutdown of the propulsion system shall not be automatically activated except in cases which could lead to serious damage, complete breakdown or explosion. Where arrangements for overriding the shutdown of the main propelling machinery are fitted, these shall be such as to preclude inadvertent activation. Visual means shall be provided to show whether or not it has been activated				
第 V 章 防火、探火、滅火和消防 (另見規則 IV-D19)					
Chapter V Fire Protection, Fire Detection, Fire Extinction and Fire Fighting (see also Regulation IV-D19)					
Part A 通則 General					
V-A1(1)	本章適用於船舶 45 m ≤ L m (船長). This chapter shall apply to vessels of 45 m ≤ L m (vessel length).				
Part B 60 m ≤ L m (船長) 船舶的消防安全措施 Fire safety measures in vessels of 60 m ≤ L m (vessel length)					
V-B3 結構 Structure					
V-B3(1)	確認船體、上層建築、結構艙壁、甲板及甲板室應以鋼料或其他等效材料建造 Confirming the hull, superstructure, structural bulkheads, decks and deckhouses shall be constructed of steel or other equivalent material				
V-B4 住艙及服務艙內之艙壁 Bulkheads within the accommodation and service spaces					
V-B4(1)	確認在住艙及服務艙內，所有要求 B 類隔間之艙壁應從甲板延伸到甲板，並延伸至外殼或其他邊界，除非在艙壁兩側都裝有連續的 B 類天花板或襯裡，或兩者都有。B 類隔間應由經認可的不燃材料建造 Confirming that within the accommodation and service spaces, all bulkheads required to be B class divisions shall extend from deck to deck and to the shell or other boundaries, unless continuous B class ceilings or linings, or both, are fitted on both sides of the bulkheads. B class divisions shall be constructed of approved non-combustible materials				
V-B5 住艙、服務艙和控制站內梯道與升降機圍壁的保護 Protection of stairways and lift trunks in accommodation spaces, service spaces and control stations					
V-B5(1)	僅穿過一層甲板的梯道，須至少在一個平面上用不低於"B-0"級的分隔和自閉式門保護。 Stairways which penetrate only a single deck shall be protected at least at one level by at least "B-0" class divisions and self-closing doors.				

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	<p>僅穿過一層甲板的升降機圍壁須使用在兩個平面均設有鋼門的“A-0”級分隔圍壁。</p> <p>Lifts which penetrate only a single deck shall be enclosed by "A-0" class divisions with steel doors at both levels.</p>				
	<p>穿過多於一層甲板的梯道與升降機圍壁須至少用“A-0”級分隔圍壁，並在各層用自閉式門保護。</p> <p>Stairways and lift trunks which penetrate more than a single deck shall be enclosed by at least "A-0" class divisions and protected by self-closing doors at all levels.</p>				
V-B5(2)	<p>確認所有樓梯，均應為鋼架結構，除非主管機關允許使用其他等效材料</p> <p>Confirming all stairways shall be of steel frame construction except where the Administration permits the use of other equivalent material.</p>				
V-B6	耐火隔間上的門 Doors in fire-resistant divisions				
V-B6(1)	<p>確認耐火隔間上的門應盡可能具有與其安裝之隔間相等之耐火性。</p> <p>Confirming the doors in fire-resistant divisions shall have resistance to fire as far as practicable, equivalent to the division in which they are fitted</p> <p>註：裝設於 A 類機器處所限界面上的門須為自閉式，並合理氣密 note : Doors fitted in boundary bulkheads of machinery spaces of category A shall be self-closing and reasonably gastight.</p>				
V-B6(2)	<p>確認要求自動關閉的門不得安裝止回鈎。除非此類止回鈎，裝有故障安全型的遙控釋放裝置</p> <p>Confirming the doors required to be self-closing shall not be fitted with hold-back hooks. Unless such hold-back arrangements fitted with remote release fittings of the fail-safe type</p>				
V-B6(3)	<p>確認門於其中和之下開設通風口符合規則 V-B6(3)。</p> <p>Confirming the ventilation openings in and under the doors shall comply with V-B6(3).</p>				
V-B7	艙壁和甲板的耐火完整性 Fire integrity of bulkheads and decks				
V-B7(1)	<p>確認除本篇其他地方要求的艙壁和甲板耐火完整性的具體規定外，艙壁和甲板的最低耐火完整性應符合本規則表 1 和表 2 的規定。</p> <p>Confirming that in addition to the specific provisions for fire integrity of bulkheads and decks required elsewhere in this part, the minimum fire integrity of bulkheads and decks shall be as prescribed in table 1 and table 2 of this regulation.</p>				
V-B7(4)	<p>確認機艙之窗及天窗符合規則 V-B7(4)。</p> <p>Confirming windows and skylights to machinery spaces shall</p>				

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	comply with V-B7(4).				
V-B7(5)	<p>在第 3(1)條要求使用鋼質或其他等效材料製成的外部邊界，若本部分他處不要求該邊界具有“A”級完整性，可以開孔安裝窗和舷窗。</p> <p>External boundaries which are required by regulation 3(1) to be of steel or equivalent material may be pierced for the fitting of windows and side scuttles, provided that there is no requirement elsewhere in this part for such boundaries to have "A" class integrity.</p>				
V-B8	構造細節 Details of construction				
V-B8(1)	<p>方法 IF：在住艙與服務艙及控制站，所有襯料、通風擋板、天花板及其相關地面均應採用不燃材料。</p> <p>Method IF. In accommodation and service spaces and control stations all linings, draught stops, ceilings and their associated grounds shall be of non-combustible materials.</p>				
V-B8(2)	<p>方法 IF、IIF 及 IIIF：在住艙與服務艙間及控制站提供服務的走廊和樓梯間圍壁結構中，天花板、襯料、通風擋板及其相關地面應採用不燃材料</p> <p>Methods IIF and IIIF：In corridors and stairway enclosures serving accommodation and service spaces and control stations, ceilings, linings, draught stops and their associated grounds shall be of non-combustible materials</p>				
V-B8(3)(c)	<p>確認封閉於天花板、嵌鑲板或襯板背後的空隙，須以緊密安裝的且間距不超過 14m 的風擋分隔。上述空隙，包括梯道、圍壁通道等襯板後面的空隙，在垂直方向上，須在每層甲板處加以封堵。Confirming that air spaces enclosed behind ceilings, panellings, or linings shall be divided by close-fitting draught stops spaced not more than 14 m apart. In the vertical direction, such spaces, including those behind linings of stairways, trunks, etc., shall be closed at each deck.</p>				
V-B9	通風系統 Ventilation systems				
V-B9(1)	<p>確認通風管道的材質和通風管道貫穿防火隔艙符合 V-B9(1)。</p> <p>Confirming that the material of ventilation ducts and ventilation ducts penetration fire division comply with V-B9(1).</p>				
V-B9(2)	<p>確認所有通風系統的主要入口與出口應能從通風艙間的外部關閉。住艙、服務艙、控制站和機艙的動力通風應能從所服務艙間外易於接近的位置停止</p> <p>Confirming the main inlets and outlets of all ventilation systems shall be capable of being closed from outside the spaces being ventilated. Power ventilation of accommodation spaces, service spaces, control stations and machinery spaces shall be capable of</p>				

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	being stopped from an easily accessible position outside the space being served.				
V-B9(3)	確認應提供從安全位置關閉煙囪周圍環形空間的裝置 Confirming the means shall be provided for closing, from a safe position, the annular spaces around funnels				
V-B9(4)	確認機艙之通風系統須獨立於其他處所的通風系統。 Confirming ventilation systems serving machinery spaces shall be independent of systems serving other spaces.				
V-B9(5)	確認存放可觀數量高度易燃性物質的儲藏室，須設有獨立於其他通風系統的通風裝置。應於高處和低處佈置通風設備；通風機的進風口和出風口須位於安全區域並裝有火花熄滅器。 Confirming store-rooms containing appreciable quantities of highly flammable products shall be provided with ventilation arrangements which are separate from other ventilation systems. Ventilation shall be arranged at high and low levels and the inlets and outlets of ventilators shall be positioned in safe areas and fitted with spark arresters.				
V-B10	加熱設備 Heating installations				
V-B10(1)	確認電暖氣應固定在適當位置，其構造應能將火災風險降至最低。此類散熱器不得安裝暴露元件，以免衣服、窗簾或其他類似材料燒焦或著火。 Confirming the electric radiators shall be fixed in position and so constructed as to reduce fire risks to a minimum. No such radiator shall be fitted with an element so exposed that clothing, curtains or other similar materials can be scorched or set on fire.				
V-B10(2)	確認不允許使用明火取暖。加熱爐和其他類似器具應牢牢固定，並應提供充分的防火保護和絕緣。 Confirming that heating by means of open fires shall not be permitted. Heating stoves and other similar appliances shall be firmly secured and adequate protection and insulation against fire shall be provided.				
V-B10(3)	確認除炊事爐灶和水加熱器外，不准使用明火可燃氣體用具。裝有上述爐灶或水加熱器的處所，須具備足夠的通風以將煙氣和可能洩露的燃氣排放至安全地點。所有從容器輸送燃氣至爐灶或水加熱器的管子均須用鋼或其他經認可的材料製成，須設有燃氣自動安全關閉裝置，當燃氣總管內失壓或任何燃俱熄火時即自動關閉。 Confirming open flame gas appliances, except cooking stoves and water heaters, shall not be permitted. Spaces containing any such				

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	stoves or water heaters shall have adequate ventilation to remove fumes and possible gas leakage to a safe place. All pipes conveying gas from container to stove or water heater shall be of steel or other approved material. Automatic safety gas shut-off devices shall be fitted to operate on loss of pressure in the gas main pipe or flame failure on any appliance.				
V-B(11)	其它 Miscellaneous items				
V-B(11)(1)	<p>確認走廊和梯道圍壁的所有外露表面以及在起居處所、服務處所和控制站內，包括隱蔽或不易接近處的地面，的表面，均須具有低播焰性。起居處所、服務處所和控制站的天花板的外露表面須具有低播焰性。</p> <p>Confirming all exposed surfaces in corridors and stairway enclosures and surfaces including grounds in concealed or inaccessible spaces in accommodation and service spaces and control stations shall have low flame-spread characteristics.21 Exposed surfaces of ceilings in accommodation and service spaces and control stations shall have low flame-spread characteristics.</p>				
V-B(11)(2)	<p>確認外露內表面上所用的油漆、清漆和其他塗料，須不致產生過量的煙或毒性氣體或蒸氣。</p> <p>Confirming paints, varnishes and other finishes used on exposed interior surfaces shall not be capable of producing excessive quantities of smoke or toxic gases or vapours.</p>				
V-B(11)(3)	<p>確認主要的甲板覆蓋物應由經認可的材料製成，在高溫下不會輕易點燃或引起有毒或爆炸危險 Confirming the primary deck coverings shall be of approved material which will not readily ignite or give rise to toxic or explosive hazards at elevated temperatures</p>				
V-B(11)(4)	<p>確認在穿透 A 或 B 類隔間以供電纜、管道等或類似設備通過的地方，應採取措施以確保隔間的耐火完整性不受損害 Confirming where A or B class divisions are penetrated for the passage of electrical cables, pipes, etc., or similar devices, arrangements shall be made to ensure that the fire integrity of the divisions is not impaired</p>				
V-B(11)(6)	<p>電影設備不得使用硝酸纖維素基膠片。</p> <p>Confirming cellulose-nitrate-based film shall not be used in cinematograph installations.</p>				
V-B(11)(7)	<p>除漁獲物加工中所用者外，所有廢物箱，須用不燃材料製成且四周和底部均不得有開口。</p> <p>Confirming all waste receptacles other than those used in fish processing shall be constructed of non-combustible materials with</p>				

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	no openings in the sides or bottom.				
V-B(11)(9)	必要時，確認應安裝滴水盤，以防止油洩漏到艙底 Confirming the drip trays shall be fitted, where necessary, to prevent oil leaking into bilges				
V-B(12)	儲存氣瓶和危險品 Storage of gas cylinders and dangerous materials				
V-B(12)	確認儲存氣瓶和危險品符合 V-B(12)。 Confirming the Storage of gas cylinders and dangerous materials shall comply with V-B(12).				
V-B(13)	逃生通道 Means of escape				
V-B(13)(1)	確認通往及離開所有住艙和船員正常工作艙間（機艙除外）的樓梯間和梯子之布置，應提供隨時可通往露天甲板，並由此通往救生艇筏的逃生通道。 Confirming the stairways and ladders leading to and from all accommodation spaces and in spaces in which the crew is normally employed, other than machinery spaces, shall be so arranged as to provide ready means of escape to the open deck and, thence, to the survival craft.				
V-B(13)(2)	確認從每個 A 類機艙底部到達機艙外的安全位置應提供 2 個逃生通道。其中一個梯子應提供連續的防火掩體或能從每一側操作的鋼門，並且提供從機艙底部到露天甲板的安全逃生路線通道 Confirming that 2 means of escape shall be provided from the lower part of every machinery space of category A to a safe position outside the space. One of these ladders shall provide continuous fire shelter, or a steel door capable of being operated from each side and which provides access to a safe escape route from the lower part of the space to the open deck.				
V-B(14)	自動噴水器、火災警報和探火系統(IIF 法) Automatic sprinkler and fire alarm and fire detection systems (Method IIF)				
V-B(14)(1)~(11)	確認方法 IIF 的船舶，應安裝型式認可之自動噴水器和火警警報器並符合本規則的要求和布置，以保護住艙和服務艙間 Confirming the vessels of method IIF, an automatic sprinkler and fire alarm system of an approved type and complying with the requirements of this regulation shall be installed and so arranged as to protect accommodation spaces and service spaces				
V-B(15)	自動火災警報和探火系統(IIIF 法) Automatic fire alarm and fire detection systems (Method IIIF)				
V-B(15)(1)~(6)	確認方法 IIIF 的船舶，應安裝認可型式的自動火災警報器及火災探測系統，並符合本規則的要求及布置，以探測所有住艙及服務艙間是否發生火災 Confirming the vessels of method IIIF, an automatic fire				

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	alarm and fire detection system of an approved type and complying with the requirements of this regulation shall be installed and so arranged as to detect the presence of fire in all accommodation spaces and service spaces				
V-B(15)(7)	確認至少有 2 個用於火災警報器和火災探測系統運作的電氣設備的電源，其中之一應為應急電源 Confirming that at least 2- sources of power supply for the electrical equipment used in the operation of the fire alarm and fire detection system, one of which shall be an emergency source				
V-B(17)	消防泵 Fire pumps				
V-B(17)(1), (3)	確認至少應提供 2 台消防泵並且能夠在最小壓力為 0.25 N/mm ² 的情況下輸送一定量的水，總容量 (Q) 至少為： $Q = (0.15(L(B+D))^{1/2} + 2.25)^2 \text{ m}^3/\text{h}$ 其中 L、B 及 D 的單位為 m Confirming that at least 2 fire pumps shall be provided and capable of delivering a quantity of water at a minimum pressure of 0.25 N/mm ² with a total capacity (Q) of at least: $Q = (0.15(L(B+D))^{1/2} + 2.25)^2 \text{ m}^3/\text{h}$ where L, B and D are in metres				
V-B(17)(2)	確認 75 m ≤ L m (船長) 的船舶應配備獨立驅動的固定式應急消防泵 Confirming the vessels of 75 m ≤ L m (vessel length) shall be provided a fixed emergency fire pump independently driven				
V-B(18)	Fire mains 消防總管				
V-B(18)(1)(a)	確認在需要一個以上的消防栓來提供噴水數量的情況下，應提供消防總管 Confirming that a fire main shall be provided, where more than one hydrant is required to provide the number of jets				
V-B(18)(1)(c)	確認當消防總管不能自動排洩時，如預期會發生凍害，應安裝合適的排洩旋塞 Confirming that where fire mains are not self-draining, suitable drain cocks shall be fitted where frost damage could be expected				
V-B(18)(2)(b)	確定在兩台泵同時工作並通過第 19(5)條規定的噴嘴從任何相鄰的消防栓提供(a)小段所規定的水量時，所有消防栓上須保持不小於 0.25N/mm ² 的壓力。 Confirming with the two pumps simultaneously delivering through nozzles specified in regulation 19(5) the quantity of water specified in subparagraph (a), through any adjacent hydrants, the minimum pressure of 0.25 N/mm ² shall be maintained at all hydrants.				
V-B(19)	消防栓、消防水龍帶和噴嘴 Fire hydrants, fire hoses and nozzles				

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V-B(19)(1)(a)	確認所提供的消防水龍帶數量應等於消防栓數量及一條備用水龍帶 Confirming the number of fire hoses provided shall be equal to the number of fire hydrants and one spare hose				
V-B(19)(1)(b)	確認消防水龍帶應為經認可的材料，其長度足以達到 20 m，並配有尺寸為 12 mm、16 mm 和 19 mm 的兩用噴嘴 Confirming the fire hoses shall be of approved material and sufficient in length up to 20 m with a dual nozzle of size 12 mm, 16 mm and 19 mm				
V-B(19)(2)(a)	確定消防栓的數量和位置，須至少能將兩股不是來自同一消防栓的水柱，而且其中一股須僅用 1 根消防水帶，射至船舶在航行時船員通常可到達的任何部位。 Confirming the number and position of the hydrants shall be such that at least two jets of water not emanating from the same hydrant, one of which shall be from a single length of fire hose, may reach any part of the vessel normally accessible to the crew while the vessel is being navigated.				
V-B(19)(5)	確認住艙和服務艙間不需要使用尺寸大於 12 mm 的噴嘴，機艙和其外部位置不需要使用尺寸大於 19 mm 的噴嘴 Confirming that a nozzle size greater than 12 mm need not be used for accommodation and service spaces and a nozzle size greater than 19 mm need not be used for machinery spaces and exterior locations				
V-B(20)	滅火器 Fire extinguishers				
V-B(20)(1)	確認滅火器應為認可型式。所需手提式液體滅火器容量不超過 13.5 公升，不少於 9 公升 Confirming the fire extinguishers shall be of approved types. The capacity of required portable fluid extinguishers shall be not more than 13.5 l and not less than 9 l.				
V-B(21)	控制站、住艙和服務艙間的手提式滅火器 Portable fire extinguishers in control stations and accommodation and service spaces				
V-B(21)(1)	確認應在控制站、住艙和服務艙間提供至少 5 個經認可的手提式滅火器 Confirming that at least 5 approved portable fire extinguishers shall be provided in control stations and accommodation and service spaces				
V-B(21)(2)	確認應提供備用滅火劑 Confirming the spare charges shall be provided				
V-B(22)	機艙滅火設備 Fire-extinguishing appliances in machinery spaces				
V-B(22)(1)(a)	確認裝有燃油鍋爐或燃油裝置的艙間應設有下列固定式滅火系統之一：(i) 壓力噴水裝置；(ii) 窒息氣體滅火裝置；(iii) 高膨脹泡沫滅火裝置 Confirming the spaces containing oil-fired boilers or fuel oil units				

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	shall be provided with one of the following fixed fire-extinguishing systems : (i) a pressure water-spraying installation; (ii) a fire-smothering gas installation; (iii) a fire-extinguishing installation using high expansion foam.				
V-B(22)(2)	<p>確認機艙安裝內燃機的總輸出功率不小於 750 kW，應提供：(a)-上述 V-B(22)(1)(a)要求的固定式滅火系統一套；(b)-至少一套令主管機關滿意的手提式空氣泡沫設備；(c)-至少一套 45 公升容量認可的泡沫滅火器；此外，還應提供足夠數量的手提式泡沫滅火器</p> <p>Confirming the machinery spaces containing internal combustion machinery has a total power output of not less than 750 kW, shall be provided with : (a)- one of the fixed fire-extinguishing systems required by V-B(22)(1)(a) above ; (b)- at least one set of portable air-foam equipment to the satisfaction of the Administration; and (c)- at least one set 45 / capacity approved foam-type fire extinguishers ; In addition, there shall be provided a sufficient number of portable foam extinguishers</p>				
V-B(22)(6)	<p>任何 A 類機器處所，若在低部設有通至毗鄰軸隧的出入口，則除任何水密門之外，還須在該機器處所的偏遠一側增設一扇能從兩面操縱的輕型擋火鋼門。Confirming any machinery space of category A to which access is provided at a low level from an adjacent shaft tunnel, there shall be provided, in addition to any watertight door and on the side remote from that machinery space, a light steel fire-screen door which shall be capable of being operated from each side of the door.</p>				
V-B(23)	國際岸上接頭 International shore connection				
V-B(23)	<p>確認國際岸上接頭佈置符合 V-B(23)。</p> <p>Confirming the arrangement of international shore connection comply with V-B(23)-</p>				
V-B(24)	消防員裝備 Fireman's outfits				
V-B(24)(1)	<p>確認應攜帶至少 2 套經主管機關滿意的消防員裝備，並存放在易於取用和隨時可用並應存放在相隔較遠的位置</p> <p>Confirming that at least 2 fireman's outfits shall be carried to the satisfaction of the Administration and stored so as to be easily accessible and ready for use and shall be stored in widely separated positions</p>				
V-B(25)	消防控制圖 Fire control plan				
V-B(25)	<p>確認永久張貼經主管機關滿意的消防控制圖</p> <p>Confirming that a permanently exhibited fire control plan to the satisfaction of the Administration.</p>				

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V-B(26)	滅火器的隨時可用性 Ready availability of fire-extinguishing appliances				
V-B(26)	確認滅火器具應保持良好狀態並隨時可用 Confirming the fire-extinguishing appliances shall be kept in good order and available for immediate use at all times.				
V-C	45 m ≤ L m (船長) 但 L < 60 m 之船舶的消防安全措施 Fire Safety Measures in Vessels of 45 m ≤ L m (vessel length) but L < 60 m				
V-C(28)	結構防火保護 Structural fire protection				
V-C(28)(1)	確認船體、上層建築、結構艙壁、甲板和甲板室應採用不燃材料建造 Confirming the hull, superstructure, structural bulkheads, decks and deckhouses shall be constructed of non-combustible materials				
V-C(28)(2)(a)	確認其船體由不燃材料建造，將 A 類機艙與住艙隔開的甲板和艙壁，如 A 類機艙未設置固定滅火系統，應使用 A-60 類標準建造，如安裝此類系統，則使用 A-30 類標準建造。將其他類機艙與住艙隔開的甲板和艙壁應使用 A-0 類標準建造 Confirming the hull of which is constructed of non-combustible materials, the decks and bulkheads separating machinery spaces of category A from accommodation spaces shall be constructed to A-60 class standard where the machinery space of category A is not provided with a fixed fire-extinguishing system and to A-30 class standard where such a system is fitted. Decks and bulkheads separating other machinery spaces from accommodation shall be constructed to A-0 class standard				
V-C(28)(2)(b)	確認其船體由可燃材料建造，將機艙與住艙隔開的甲板和艙壁應使用 F 或 B-15 類標準建造 Confirming the hull of which is constructed of combustible materials, the decks and bulkheads separating machinery spaces from accommodation spaces shall be constructed to F class or B-15 class standard				
V-C(28)(3)(a)	確認其船體由不燃材料建造，住艙走廊艙壁應為 B-15 類隔艙 Confirming the hull of which is constructed of non-combustible materials, bulkheads of corridors serving accommodation spaces shall be of B-15 class divisions				
V-C(28)(3)(b)	確認其船體由可燃材料建造，住艙走廊艙壁應為 F 類隔艙 Confirming the hull of which is constructed of combustible materials, bulkheads of corridors serving accommodation spaces shall be of F class divisions				
V-C(28)(8)	確認 A 類、 B 類或 F 類隔艙被電纜、管子、箱道、風道等穿過的艙壁或甲板，應確保布置不損害隔艙的耐火完整性 Confirming the bulkheads or decks required A class, B class or F class divisions,				

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	are penetrated for the passage of electrical cables, pipes, trunks, ducts, etc., arrangements shall be ensured that the fire integrity of the division is not impaired				
V-C(28)(10)	<p>確認若機艙天窗可以打開，它們應能夠從機艙外部關閉。含有玻璃板的天窗應在外部安裝鋼製百葉窗，並應使用鋼絲增強玻璃。</p> <p>Confirming that where skylights to machinery spaces can be opened, they shall be capable of being closed from outside the space. Skylights containing glass panels shall be fitted with external shutters of steel and wire-reinforced glass shall be used.</p>				
V-C(29)	通風系統 Ventilation systems				
V-C(29)(1)	<p>確認應提供從通風艙間的外部停止通風扇和關閉艙間通風系統主要開口的裝置 Confirming that means shall be provided to stop fans and close main openings to ventilation systems from outside the spaces served</p>				
V-C(29)(2)	<p>確認應提供從安全位置關閉煙囪周圍環形空間的裝置 Confirming that means shall be provided for closing, from a safe position, the annular spaces around funnels</p>				
V-C(30)	加熱裝置 Heating installations				
V-C(30)	<p>確認加熱裝置符合 V-C(30)。</p> <p>Confirming the heating installations comply with V-C(30).</p>				
V-C(31)	其它 Miscellaneous items				
V-C(31)(1)	<p>確認住艙等內部的暴露表面應具有低火焰傳播特性 Confirming the exposed surfaces within accommodation spaces etc. shall have low flame-spread characteristics</p>				
V-C(31)(4)	<p>確認主要的甲板覆蓋物應由經認可的材料製成，在高溫下不會輕易點燃或引起有毒或爆炸危險 Confirming the primary deck coverings shall be of approved material which will not readily ignite or give rise to toxic or explosive hazards at elevated temperatures</p>				
V-C(31)(7)	<p>確認驅動燃油輸送泵、燃油單元泵和其他類似燃油泵的機械應於相關艙間的外部安裝遙控裝置，以便在該艙間發生火災時可以將其停止</p> <p>Confirming the machinery driving fuel oil transfer pumps, fuel oil unit pumps and other similar fuel pumps shall be fitted with remote controls situated outside the space concerned so that they can be stopped in the event of a fire arising in the space</p>				
V-C(32)	氣瓶及危險物質之存放 Storage of gas cylinders and dangerous materials				
V-C(32)	<p>確認儲存氣瓶和危險品符合 V-C(32)。</p> <p>Confirming the Storage of gas cylinders and dangerous materials comply with V-C(32).</p>				

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V-C(33)	逃生措施 Means of escape				
V-C(33)(1)	<p>(a) 確認在住艙的所有樓層至少應提供 2 個大間距分開的逃生通道： Confirming that at all levels of accommodation at least 2 widely separated means of escape shall be provided：</p> <p>(i) 在露天甲板以下，逃生通道須為梯道，而第 2 個逃生通道可為箱道或梯道；及 below the weather deck, the means of escape shall be a stairway and the second escape may be a trunk or a stairway; and</p> <p>(ii) 在露天甲板以上，逃生途徑應為梯道或通向露天甲板的門或其組合 above the weather deck, the means of escape shall be stairways or doors to an open deck or a combination thereof</p>				
V-C(33)(2)	<p>確認每個 A 類機艙應提供 2 條逃生通道，且應盡可能大間距分開。垂直逃生通道應使用鋼梯 Confirming that 2 means of escape shall be provided from every machinery space of category A which shall be as widely separated as possible. Vertical escapes shall be by means of steel ladders.</p>				
V-C(34)	火災自動警報及火災探測系統 Automatic fire alarm and fire detection systems				
V-C(34)	<p>確認主管機關允許可燃的建造，或者使用了可觀數量的可燃材料建造住艙等艙間，應特別考慮在這些艙間安裝自動火災警報和火災探測系統 Confirming where the Administration has permitted a combustible construction, or where otherwise appreciable amounts of combustible materials are used on the construction of accommodation spaces, etc., special consideration shall be given to the installation of an automatic fire alarm and fire detection system in those spaces,</p>				
V-C(35)	消防泵 Fire pumps				
V-C(35)(1)	<p>(a) 確認 1 台動力泵不是由主機驅動； Confirming that 1 power pump not driven by main machinery</p> <p>(b) 確認 1 台動力泵由主機驅動 Confirming that 1 power pump driven by main machinery</p>				
V-C(35)(3)	<p>確認消防總管所連接之離心泵或其他泵可能發生會回流，應安裝止回閥 Confirming that centrifugal pumps or other pumps connected to the fire main through which backflow could occur shall be fitted with non-return valves</p>				
V-C(35)(4)	<p>確認未配備動力驅動應急消防泵且機艙沒有固定滅火系統的船舶應配備經主管機關滿意的額外滅火裝置 Confirming that vessels not fitted with a power-operated emergency fire pump and without a fixed</p>				

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	fire-extinguishing system in the machinery spaces shall be provided with additional fire-extinguishing means to the satisfaction of the Administration				
V-C(35)(5)	確認當船舶裝有應急動力消防泵時，應為獨立驅動的自給式泵，安裝在機艙外安全位置且最好在工作甲板上方。Confirming where vessels fitted with emergency power-operated fire pumps shall be independently driven self-contained pumps fitted in a safe place outside the engine-room and preferably above the working deck.				
V-C(35)(6)	確認應急消防泵（如已安裝）、泵、吸海水閥和其他必要的閥門應可從裝有主消防泵的艙室外部操作，其位置不可能被這些艙室內的火災切斷操作 Confirming the emergency fire pump, where fitted, the pump, sea-suction valves and other necessary valves shall be operable from outside compartments containing main fire pumps in a position not likely to be cut off by a fire in those compartments				
V-C(35)(7)	確認主動力消防泵，在最低壓力為 0.25 N/mm ² 時的總容量（Q）至少為： $Q = (0.15(L(B+D)^{1/2} + 2.25))^2 \text{ m}^3/\text{h}$ 其中 L、B 及 D 的單位為 m Confirming the total capacity (Q) at a minimum pressure of 0.25 N/mm ² of main power-operated fire pumps shall be at least: $Q = (0.15(L(B+D)^{1/2} + 2.25))^2 \text{ m}^3/\text{h}$ where L, B and D are in metres				
V-C(36)	Fire mains 消防總管				
V-C(36)(1)	確認在需要一個以上的消防栓來提供噴水數量的情況下，應提供消防總管 Confirming that a fire main shall be provided, where more than one hydrant is required to provide the number of jets				
V-C(36)(3)	確認當消防泵輸送壓力會超過消防總管設計工作壓力時，應安裝洩壓閥 Confirming where fire pump delivery pressure can exceed the designed working pressure of fire mains, relief valves shall be fitted				
V-C(36)(5)	確認當消防總管不能自動排洩時，如預期會發生凍害，應安裝合適的排洩旋塞 Confirming that where fire mains are not self-draining, suitable drain cocks shall be fitted where frost damage could be expected				
V-C (37)	消防栓、消防水龍帶及噴嘴 Fire hydrants, fire hoses and nozzles				
V-C(37)(1)	確認消防栓的位置應便於容易快速地連接消防水龍帶，並且從單一消防水龍帶至少有 1 股水柱可直接噴入船舶的任何部分 Confirming that fire hydrants shall be positioned to allow easy and quick connection of fire hoses and at least 1 jet from a single length of fire hose can				

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	be directed into any part of the vessel				
V-C(37)(3)	確認 A 類機艙應至少配備一整套消防栓、消防水龍帶和兩用噴嘴。消防栓應設於機艙外靠近入口處 Confirming the machinery spaces of category A shall be provided with at least one hydrant complete with fire hose and coupling and dual purpose nozzle. The fire hydrant shall be located outside the space and near the entrance				
V-C(37)(4)	確認每個規定的消防栓，都應有一條消防水龍帶。除此要求外，還應至少提供一條備用消防水龍帶 Confirming that every required fire hydrant, there shall be one fire hose. At least one spare fire hose shall be provided in addition to this requirement				
V-C(37)(5)	確認單一消防水龍帶的長度不超過 20m Confirming that single lengths of fire hose shall not exceed 20 m				
V-C(37)(6)	確認消防水龍帶的材料應為經認可。每條消防水龍帶均應配備接頭和兩用噴嘴 Confirming the fire hoses shall be of an approved material. Each fire hose shall be provided with couplings and a dual-purpose nozzle				
V-C(37)(8)	確認在任何情況下噴嘴的直徑應不小於 12 mm。 Confirming the nozzles in any case shall have a diameter of not less than 12 mm				
V-C(38)	滅火器 Fire extinguishers				
V-C(38)(1)	確認滅火器應為認可型式。所需手提式液體滅火器容量不超過 13.5 公升，不少於 9 公升 Confirming the fire extinguishers shall be of approved types. The capacity of required portable fluid extinguishers shall be not more than 13.5 l and not less than 9 l.				
V-C(38)(2)	確認提供的備用滅火器應經主管機關滿意 Confirming that spare charges shall be provided to the satisfaction of the Administration				
V-C(38)(4)	確認應定期檢查滅火器 Confirming that fire extinguishers shall be periodically examined				
V-C(38)(5)	確認一般情況下，用於任何艙間的手提式滅火器中，有一個應存放在該艙間的入口附近 Confirming that normally, one of the portable fire extinguishers intended for use in any space shall be stowed near an entrance to that space				
V-C(39)	控制站、住艙和服務艙的手提式滅火器 Portable fire extinguishers in control stations and accommodation and service spaces				
V-C(39)(1)	確認在控制站、住艙和服務艙應配備足夠數量經認可的手提式滅火器。但是，這些艙內的滅火器總數不得少於 3 個 Confirming that a sufficient number of approved portable fire extinguishers shall be provided in control stations and accommodation and service				

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	spaces. The total number of extinguishers in these spaces, however, shall not be less than 3				
V-C(39)(2)	確認提供的備用滅火器應經主管機關滿意 Confirming that spare charges shall be provided to the satisfaction of the Administration				
V-C(40)	機艙內的滅火器具 Fire-extinguishing appliances in machinery spaces				
V-C(40)(1)(a)	確認總輸出功率不小於 750kW 的燃油鍋爐、燃油裝置或內燃機機艙的要求，見本章 V-B(22)(2) Confirming the requirements of spaces containing oil-fired boilers, fuel oil units or internal combustion machinery having a total power output of not less than 750 kW, see V-B(22)(2) of this Chapter				
V-C(40)(1)(b)	確認禁止在新船和現成船上新安裝用作滅火劑的 <u>鹵化碳氫化合物系統</u> Confirming that new installations of halogenated hydrocarbon systems used as fire-extinguishing media shall be prohibited on new and existing vessels				
V-C(40)(2)	確認 V-C(40)(1)(a) 中列出的裝置應從此類艙間外易於接近的位置進行控制，且該位置不可能被受保護艙間內的火災切斷控制 Confirming that installations listed in V-C(40)(1)(a) shall be controlled from readily accessible positions outside such spaces not likely to be cut off by a fire in the protected space.				
V-C(40)(4)	確認在所有 A 類機艙內，應至少配備 2 個手提式滅火器，其類型應適用於撲滅包含燃油的火災。當此種艙間安裝的機器總輸出功率不小於 250 kW 時，則至少應配備 3 個此類滅火器。其中一個滅火器應存放在靠近艙間入口處附近 Confirming that in all machinery spaces of category A at least 2 portable extinguishers shall be provided, of a type suitable for extinguishing fires involving fuel oil. Where such spaces contain machinery which has a total power output of not less than 250 kW, at least 3 such extinguishers shall be provided. One of the extinguishers shall be stowed near the entrance to the space				
V-C(40)(5)	確認船舶不受固定滅火系統保護的機艙應至少配備 45 公升泡沫滅火器或其等效滅火劑 Confirming that vessels having machinery spaces not protected by a fixed fire-extinguishing system shall be provided with at least a 45 l foam extinguisher or its equivalent				
V-C(41)	消防員裝備 Fireman's outfits				
V-C(41)	確認消防員裝備的數量及位置應經主管機關滿意 Confirming the number of fireman's outfits and their location shall be to the satisfaction of the Administration				
V-C(42)	火災控制圖 Fire control plan				

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V-C(42)	確認應永久展示火災控制圖經主管機關滿意。對於小型船舶，主管機關可免除此要求 Confirming that there shall be a permanently exhibited fire control plan to the satisfaction of the Administration. In small vessels, the Administration may dispense with this requirement				
V-C(43)	滅火器設備隨時可用 Ready availability of fire-extinguishing appliances				
V-C(43)	確認滅火設備應保持在良好的狀態，並隨時可立即使用 Confirming the fire-extinguishing appliances shall be kept in good order and available for immediate use at all times				
V-C(44)	接受替代品 Acceptance of substitutes				
V-C(44)	確認在本篇中規定的任何特殊型式的器具、裝置、滅火劑或布置下，可允許使用任何其他型式的器具等，但應經主管機關滿意其具同等效能 Confirming that where in this part any special type of appliance, apparatus, extinguishing medium or arrangement is specified, any other type of appliance, etc., may be allowed provided the Administration is satisfied that it is not less effective				
第 VI 章 船員保護 Chapter VI Protection of the crew					
VI-1	一般保護措施 General protection measures				
VI-1(1)	確認救生索系統的設計應能提供所有需求的及必要的鋼索、繩索、卸扣、吊環螺栓和防滑釘等的有效性 Confirming that a lifeline system shall be designed to be effective for all needs and the necessary wires, ropes, shackles, eye bolts and cleats shall be provided				
VI-1(2)	確認緣圍板或門檻高度小於 600 mm 之甲板開口應配備防護裝置，例如鉸鍊式或便攜式欄杆或網。主管機關可豁免小開口符合這些要求，如魚斗 Confirming that deck openings provided with coamings or sills of less than 600 mm in height shall be provided with guards, such as hinged or portable railings or nettings. The Administration may exempt small openings such as fish scuttles from compliance with these requirements				
VI-1(3)	確認天窗或其他類似開口應安裝保護桿，其間距不超過 350 mm。主管機關可豁免小開口符合本要求 Confirming that skylights or other similar openings shall be fitted with protective bars not more than 350 mm apart. The Administration may exempt small openings from compliance with this requirement				
VI-1(4)	確認工作區域的甲板，如機艙、廚房、絞車和處理魚的地方，以及梯子底部和頂部以及門前，應鋪設有防滑表面，以盡量減少人員滑倒的可能性 Confirming the decks of working areas, such as in machinery spaces, in galleys, at winches and where fish is handled				

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	as well as at the foot and head of ladders and in front of doors, shall be provided with anti-skid surfaces to minimize the possibility of personnel slipping				
VI-2	甲板開口 Deck openings				
VI-2(1)	確認艙口、人孔及其他開口的鉸鏈式蓋板應有保護措施，以防止意外關閉。逃生艙口的重型蓋板應配備平衡重，其構造應能從蓋板的每一側打開 Confirming the hinged covers of hatchways, manholes and other openings shall be protected against accidental closing. The heavy covers on escape hatches shall be equipped with counterweights, and so constructed as to be capable of being opened from each side of the cover.				
VI-2(2)	確認通道艙口的尺寸不得小於 600 mm x 600 mm 或直徑 600 mm Confirming the dimensions of access hatches shall not be less than 600 mm by 600 mm or 600 mm diameter				
VI-2(3)	如可行，確認應在逃生艙口上的甲板上方提供扶手 Confirming where practicable, handholds shall be provided above the level of the deck over escape openings				
VI-3	舷牆、欄杆及保護 Bulwarks, rails and guards				
VI-3(1)	確認有效的舷牆或欄杆應安裝在工作甲板的所有暴露部分以及上層建築甲板上，如果它們是工作平台。甲板上方的舷牆或欄杆的高度至少應為 1 m。如果該高度會干擾船舶的正常運作，主管機關可以認可較小的 height Confirming the efficient bulwarks or guard rails shall be fitted on all exposed parts of the working deck and on superstructure decks if they are working platforms. The height of bulwarks or guard rails above deck shall be at least 1 m. Where this height would interfere with the normal operation of the vessel, a lesser height may be approved by the Administration				
VI-3(3)	確認最低層欄杆下方的間隙不超過 230 mm。其他各層間距不大於 380 mm，且支柱之間的距離不大於 1.5 m. Confirming the clearance below the lowest course of guard rails shall not exceed 230 mm. Other courses shall not be more than 380 mm apart, and the distance between stanchions shall not be more than 1.5 m.				
VI-3(4)	確認經主管機關滿意的措施，例如欄杆，救生索，舷梯或甲板下通道，以保護船員在住艙，機艙及其他工作艙間之間移動 Confirming the means to the satisfaction of the Administration, such as guard rails, lifelines, gangways or underdeck passages, shall be provided to protect the crew in moving between accommodation, machinery and other working spaces				

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VI-4	樓梯和梯子 Stairways and ladders				
VI-4	確認為了確保船員的安全，應提供經主管機關滿意足夠大小和強度的樓梯及梯子並配備扶手及防滑踏板 Confirming that for the safety of the crew, stairways and ladders of adequate size and strength with handrails and non-slip treads shall be provided to the satisfaction of the Administration.				
第 VII 章 救生設備及裝置 Chapter VII Life-saving Appliances and Arrangements					
VII-	適用範圍 Application				
A1(1)	除另有明文規定外，本章適用於新船 $45\text{ m} \leq L$ (船長) Unless expressly provided otherwise, this chapter shall apply to new vessels of $45\text{ m} \leq L$ (Vessel length)				
VII-A3	救生設備和裝置的評估、試驗及認可 Evaluation, testing and approval of life-saving appliances and arrangements				
VII-A3(1)	除 VII-A3(5)款及(6)款規定外，本章要求的救生設備和裝置應經主管機關認可 Except as provided in paragraphs VII-A3((5) and (6), life-saving appliances and arrangements required by this chapter shall be approved by the Administration				
VII-A4	產品試驗 Production tests				
VII-A4	確認救生設備進行必要的產品試驗，以確保救生設備依照認可原型的相同標準製造 Confirming the life-saving appliances to be subjected to such production tests as are necessary to ensure that the life-saving appliances are manufactured to the same standard as the approved prototype				
VII-B5	救生艇筏和救難艇的數量和類型 Number and types of survival craft and rescue boats				
VII-B5(1)	確認每艘船舶應至少配備 2 艘救生艇筏 Confirming that every vessel shall be provided with at least 2 survival craft				
VII-B5(2)	確認船舶 $75\text{ m} \leq L$ (船長) 的救生艇筏及救難艇的數量、容量和型式 Confirming the number, capacity and type of survival craft and rescue boats of vessels of $75\text{ m} \leq L$ (船長 vessel length)				
VII-B5(3)	確認船舶 L (船長) $< 75\text{ m}$ 的救生艇筏及救難艇的數量、容量和型式 Confirming the number, capacity and type of survival craft and rescue boats of vessels of L (vessel length) $< 75\text{ m}$				
VII-B5(4)	確認代替滿足上述 VII-B1(2)或 VII-B1(3)中救生艇筏的要求，船舶可以攜帶一艘或多艘能夠在船艉自由降落的救生艇 Confirming that in lieu of meeting the requirements of survival craft in VII-B1(2) or VII-B1(3) above, vessels may carry one or more lifeboats capable of being free-fall launched over the stern of the vessel				
VII-	確認救生艇筏及救難艇應符合 IRSFV 第 VII 章規則第 17 至 23 條的				

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B5(9)	適用要求 Confirming that survival craft and rescue boats shall comply with the applicable requirements of Chapter VII Regulations 17 to 23 inclusive of IRSFV				
VII-B6	救生艇筏及救難艇的可用性與存放 availability and stowage of survival craft and rescue boats				
VII-B6(1)	<p>確認救生艇筏應 Confirming the survival craft shall :</p> <p>(a)(i) 在緊急情況下隨時可用 ; be readily available in case of emergency ;</p> <p>(ii) 能夠在俯仰達 10°及傾斜達 20°的任一情況下安全快速地下水，無論救生艇筏或救難艇是否載滿人員或無人 ; be capable of being launched safely and rapidly under the conditions of a trim up to 10° and a list up to 20° either way with full complement of persons or without persons in the survival craft or rescue boat ;</p> <p>(iii) 能夠快速回收 be capable of rapid recovery</p> <p>(b) 如此存放 be so stowed that:</p> <p>(i) 不防礙在乘載甲板人員的集合 the marshalling of persons at the embarkation deck is not impeded;</p> <p>(ii) 不防礙他們的迅速處理 their prompt handling is not impeded;</p> <p>(iii) 可以迅速、有序地登船 ; 及 embarkation can be effected rapidly and in good order; and</p> <p>(iv) 不干擾任何其他救生艇筏之操作 the operation of any other survival craft is not interfered with</p>				
VII-B7	乘載進入救生艇筏 Embarkation into survival craft				
VII-B7	確認乘載進入救生艇筏應配備適當的裝置，這應包括照明、梯子、下水設備等 Confirming that suitable arrangements shall be made for embarkation into the survival craft, , which shall include illumination, ladder, launching appliances etc.,				
VII-B8	救生衣 Lifejackets				
VII-B8(1)	確認在船上的每個人都應攜帶經認可型式的救生衣 Confirming that every person on board, a lifejacket of an approved type shall be carried.				
VII-B8(2)	確認救生衣之存放應易於取用，其位置應清楚標明 Confirming that lifejackets shall be so placed as to be readily accessible and their position shall be plainly indicated.				
VII-B9	浸水衣和保溫衣具 Immersion suits and thermal protective aids				
VII-B9(1)	確認應向分配到救難艇船員上的每個人提供合適尺寸及經認可的浸水衣 Confirming that an approved immersion suit, of appropriate size, shall be provided for every person assigned to crew of the rescue boat				

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VII-B9(2)	確認船舶應為船上不在救生艇上、或吊艇架下水之救生筏上或不需要入水即可登上救生筏之救生筏上的每個人配備浸水衣 Confirming that vessels shall carry immersion suits for every person on board not accommodated in lifeboats; or davit-launched liferafts; or liferafts which do not require entry into the water to board the liferaft				
VII-B9(3)	確認除上述 (VII-B9(2))外，船舶應為每艘救生艇配備至少 3 件浸水衣。船舶應為救生艇內未配備浸水衣的人員配備保溫衣具，以及攜帶足夠救生艇允許容納人數 10%的備用保溫衣具，或至少 2 件 Confirming that in addition to (VII-B9(2)) above, vessels shall carry for each lifeboat at least 3 immersion suits. Vessels shall carry thermal protective aids for persons to be accommodated in the lifeboats and not provided with immersion suits, and spare thermal protective aids sufficient for 10% of the number of persons the lifeboat is permitted to accommodate or at least 2				
VII-B9(4)	確認船舶經常在溫暖的氣候下作業，主管機關認為在這種情況下不需要浸水衣和保溫衣具 Confirming that vessels constantly engaged in warm climates, where, in the opinion of the Administration, immersion suits and thermal protective aids are unnecessary.				
VII-B9(5)	確認可以使用 VII-B9(2)與(3)要求的浸水服來滿足上述 VII-B9(1)的要求 Confirming that the immersion suits required by VII-B9(2) and (3) may be used to comply with the requirements of VII-B9(1) above				
VII-B10	救生圈 Lifebuoys				
VII-B10(1)	確認應提供的救生圈數量：Confirming that the number of lifebuoys shall be provided: (a) 船舶 $75 \text{ m} \leq L$ (船長) 8 個救生圈；及 8 lifebuoys in vessels of $75 \text{ m} \leq L$ in length and over; and (b) 船舶 L (船長) $< 75 \text{ m}$ 6 個救生圈 6 lifebuoys in vessels of $L < 75 \text{ m}$ in length.				
VII-B10(2)	確認至少上述 VII-10(1)指定救生圈數量的一半應配備認可型式的自燃燈 Confirming that at least half of the number of lifebuoys referred to VII-10(1) above shall be provided with self-igniting lights of approved type				
VII-B10(3)	確認至少上述 VII-10(2)配備自燃燈的救生圈之中的 2 個應配備自動發煙信號，並應能夠從駕駛台快速釋放 Confirming that at least 2 of the lifebuoys provided with self-igniting lights in VII-10(2) above shall be provided with self-activating smoke signals and shall be capable of quick release from the navigation bridge.				
VII-	確認船舶每側至少有 1 個救生圈應裝配可浮救生索，其長度等於自最				

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B10(4)	輕載航海狀況水線至存放高度的兩倍，但不小於 30 m。此救生圈應無自燃燈。 Confirming that at least 1 lifebuoy on each side of the vessel shall be fitted with a buoyant lifeline equal in length to not less than twice the height at which it is stowed above the waterline in the lightest seagoing condition but not less than 30 m. Such lifebuoys shall not have self-igniting lights				
VII-B10(5)	所有救生圈須放置於船上人員容易取用的位置，並總是能夠迅速鬆開，且不得以任何方式永久固定。 Confirming that all lifebuoys shall be so placed as to be readily accessible to the persons on board and shall always be capable of being rapidly cast loose and shall not be permanently secured in any way.				
VII-B11	拋繩器 Line-throwing appliances				
VII-B11	確認每艘船舶都應攜帶經認可型式的拋繩器 Confirming that every vessel shall carry a line-throwing appliance of an approved type				
VII-B12	遇險信號 Distress signals				
VII-B12(1)	確認應為每艘船舶提供晝夜發出有效遇險信號的裝置，包括至少 12 個火箭式降落傘信號彈 Confirming that every vessel shall be provided with means of making effective distress signals by day and by night, including at least 12 rocket parachute flares				
VII-B12(2)	確認遇險信號應為經認可的型式。它們應放置在易於接近的位置。其位置應清楚標明。 Confirming that distress signals shall be of an approved type. They shall be so placed as to be readily accessible and their position shall be plainly indicated.				
VII-B13	無線電救生器具 Radio life-saving appliances				
VII-B13(1)	確認每艘船舶至少應配備 3 台經認可的雙向 VHF 無線電話器具。 Confirming that at least 3 two-way VHF radiotelephone apparatus shall be provided of an approved type on every vessel.				
VII-B13(2)	確認現有船舶上提供的不符合性能標準的雙向 VHF 無線電話器具在本議定書生效日之前可被主管機關接受，當主管機關確信它們與已認可的雙向 VHF 無線電話器具相容 Confirming that two-way VHF radiotelephone apparatus provided on board existing vessels and not complying with the performance standards adopted may be accepted by the Administration until the date of entry into force of this Protocol, provided that the Administration is satisfied that they are compatible with approved two-way VHF radiotelephone apparatus.				
VII-B14	搜救雷達詢答器 Radar transponders				
VII-B14	確認每艘船舶的每一側至少應攜帶 1 個雷達詢答器，並將其存放在可				

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	以迅速放入任何救生艇筏的位置上 Confirming that at least 1 radar transponder shall be carried on each side of every vessel and stowed in such locations that they can be rapidly placed in any survival craft				
VII-15	救生設備上的反光材料 Retro-reflective materials on life-saving appliances				
VII-15	確認所有救生艇筏、救難艇、救生衣和救生圈均應根據 IMO 的建議配備反光材料 Confirming that All survival craft, rescue boats, lifejackets and lifebuoys shall be fitted with retro-reflective material in accordance with the recommendations of the IMO				
VII-B16	操作準備、維護和檢查 Operational readiness, maintenance and inspections				
VII-B16(1)	確認在船舶離開港口之前和航行期間的所有時候，所有救生設備應處於工作狀態並準備好立即使用 Confirming that before the vessel leaves port and at all times during the voyage, all life-saving appliances shall be in working order and ready for immediate use				
VII-B16(2)	確認應提供經主管機關認可的船上救生設備維修說明書或接受的船上計劃維修大綱，並據此進行維修 Confirming the instructions or a shipboard planned maintenance programme for on-board maintenance of life-saving appliances approved or accepted by the Administration shall be provided and maintenance shall be carried out accordingly				
VII-B16(3)	確認用於下水的鋼索在不超過 30 個月的間隔應兩端對調，並在不超過 5 年的間隔進行換新，或在必要時因鋼索劣化而換新 Confirming the falls used in launching shall be turned end for end at intervals of not more than 30 months and be renewed at intervals of not more than 5 years, or when necessary due to deterioration of the falls				
VII-B16(4)	確認對過度磨損或消耗以及需要定期更換的救生設備及其部件，應提供備件和維修設備 Confirming that spares and repair equipment shall be provided for life-saving appliances and their components which are subject to excessive wear or consumption and need to be replaced regularly				
VII-B16(5)	每週檢查 Weekly inspection 確認 (a)：應對所有救生艇筏、救難艇及下水設備進行目視檢查，以確保它們可以使用。(b)：救生艇和救難艇的所有發動機應正傳和倒傳運轉總時間不少於 3 分鐘(如適用)。(c)：應對一般應急警報系統進行試驗 Confirming that (a): all survival craft, rescue boats and launching appliances shall be visually inspected to ensure that they are ready for use. (b): all engines in lifeboats and rescue boats shall be run ahead and astern for a total period of not less than 3 min,				

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	where applicable. (c): the general emergency alarm system shall be tested				
VII- B16(6)	<p>每月檢查 Monthly inspections</p> <p>確認對救生設備包括救生艇設備應使用檢查表每個月進行檢查，以確保其完整及處於良好狀態。檢查報告應記入航海日誌 Confirming the inspection of the life-saving appliances, including lifeboat equipment, shall be carried out monthly using a checklist to ensure that they are complete and in good order. A report of the inspection shall be entered in the log-book</p>				
VII- B16(7)	<p>充氣式救生筏、充氣式救生衣及充氣式救難艇的維護 Servicing of inflatable liferafts, inflatable lifejackets and inflated rescue boats</p> <p>(a)：確認每個充氣式救生筏及充氣式救生衣均應(i)：進行維修：間隔不超過 12 個月。主管機關可將此期限延長至 17 個月。(ii)：在經認可的維護站其有能力維護它們，保持適當的維護設施及僅雇用經適當訓練的人員 (a): Confirming that every inflatable liferaft and inflatable lifejacket shall be serviced (i): at intervals not exceeding 12 months. The Administration may extend this period to 17 months. (ii): at an approved servicing station which is competent to service them, maintains proper servicing facilities and uses only properly trained personnel.</p>				
VII- B16(8)	<p>定期維護靜水壓釋放裝置 Periodic servicing of hydrostatic release units</p> <p>確認一次性靜水壓釋放裝置在其到期日期過後應更換。 如果不是一次性的，靜水壓釋放裝置應進行維護： Confirming that disposable hydrostatic release units shall be replaced when their date of expiry has passed. If not disposable, hydrostatic release units shall be serviced: (a)間隔不超過 12 個月。主管機關可將此期限延長至 17 個月；(a) at intervals not exceeding 12 months. The Administration may extend this period to 17 months; (b)在經認可的維護站其有能力維護它們，保持適當的維護設施及僅雇用經適當訓練的人員 (b) at a servicing station which is competent to service them, maintains proper servicing facilities and uses only properly trained personnel.</p>				
VII- B16(9)	對於捕魚作業的性質可能導致難以遵守上面第 VII-16(7)及 VII-16(8)款要求的船舶，主管機關可允許將維護間隔延長至 24 個月，但是主管機關確信此類器具的製造及布置使它們在下一次維護之前保持在滿				

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	意的狀態 Confirming that in cases of vessels where the nature of fishing operations may cause difficulty for compliance with the requirements of paragraphs VII-16(7) and VII-16(8) above, the Administration may allow the extension of the service intervals to 24 months, provided that the Administration is satisfied that such appliances are so manufactured and arranged that they will remain in satisfactory condition until the next period of servicing				
VII-C	救生設備的要求參照 IRSFV 第 VII 章第 C 篇規則第 17~32 條 Life-saving appliances requirements refer to Chapter VII Part C Regulation 17~32 of IRSFV				
VII-C17	救生艇一般要求 General requirements for lifeboats				
VII-C18	部分圍蔽自動扶正救生艇 Self-righting partially enclosed lifeboats				
VII-C19	全圍蔽救生艇 Totally enclosed lifeboats				
VII-C20	救生艇一般要求 General requirements for liferafts				
VII-C21	充氣式救生艇 Inflatable liferafts				
VII-C22	硬式救生艇 Rigid liferafts				
VII-C23	救難艇 Rescue boats				
VII-C24	救生衣 Lifejackets				
VII-C25	浸水衣 Immersion suits				
VII-C26	保溫衣具 Thermal protective aids				
VII-C27	救生圈 Lifebuoys				
VII-C28	拋繩器 Line-throwing appliances				
VII-C29	火箭式降落傘照明彈 Rocket parachute flares				
VII-C30	手持火焰信號 Hand flares				
VII-C31	浮式發煙信號 Buoyant smoke signals				
VII-C32	下水及乘載設施 Launching and embarkation appliances				

海上避碰規則國際公約		評估建議報告(改善報告、豁免項目、風險評估)			
		符合(Y)或不適用(NA)	欲限期改善(R)	豁免及風險評估(E)	未敘明或豁免理由不充分
漁船安全國際公約 I-7	確認該船已依現行國際海上避碰規則之要求備有號燈、號標、可發出音響信號與遇險信號之設施 Confirming that the vessel was provided with lights, shapes, means of making sound signals and distress signals in accordance with the requirements of the Protocol and the International Regulations for Preventing Collisions at Sea in force				