

REPORT OF INSPECTION

OF

H.M.S.

(i) Built { at H.M. Dockyard }
 { by Messrs. } , previous to
 passing vessel into H.M. Fleet.

(ii) On completion of Large Repairs (D. 2) or Reconstruction at
 H.M. Dockyard

Date and place of Inspection.....

(i) *Contract Built Ships.* Six copies of this form are to be prepared by the Ship Overseer, and forwarded by him to the Naval Superintendent of Contract Built Ships, who is to retain one copy and distribute the remainder as follows:—Two copies to the Secretary of the Admiralty (P. Branch), one to the Commander-in-Chief, and two to the Admiral Superintendent of the Dockyard to which the ship is to be attached, one being for insertion in the Captain's Ship's Book.

(ii) *Dockyard Built Ships, or Ships refitted or reconstructed in Dockyard under the charge of the Superintendent.* Five copies of the form are to be prepared by the Dockyard. Two copies are to be transmitted to the Secretary of the Admiralty (P. Branch), one copy to the Commander-in-Chief, one copy retained by the Superintendent, and the remaining copy inserted in the Captain's Ship's Book.

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SECTION I.—HULL AND SHIP FITTINGS.

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- „ VI.—EXTERNAL COMMUNICATIONS.
- „ VII.—NAVIGATIONAL EQUIPMENT.
- „ VIII.—AIR.
- „ IX.—STORES, DRAWINGS, ETC.

Note 1.—Items not applicable to the particular ship should be deleted.

Note 2.—Any outstanding work, including approved alterations or additions, should be enclosed with this form in separate lists as follows:—

List A.—Hull items.

- „ B.—Electrical items.
- „ C.—Engineering items.
- „ D.—Gun Armament items.
- „ E.—Stores items.
- „ F.—W/T items.
- „ G.—Radar items.

The list number of any item of incompleting work should be shown opposite the appropriate D.448 item, and vice versa. Each list number should be classified as an Admiralty or Contractors' liability.

With regard to the following, is the ship built, properly fitted and completed in accordance with the approved specifications and drawings; and have the prescribed inspections, tests and trials been satisfactorily carried out?

SECTION I—HULL AND SHIP FITTINGS

1. Hull structure.....
2. (a) Watertight and Oiltight Compartments
Water Pressure and Air Pressure Tests.....
(b) Examination of all internal structure. Date of Form D.171, Parts I and II.....
3. Name compartments and portions of structure not readily accessible?.....
Condition
Date of last examination.....
4. Date of last undocking.....
Make of bottom compositions.....
Date of Form D.495.....
5. Valves and pipes passing through ship's bottom below water line : Zinc protectors. Condition.....
Date of last examination.....
6. Pumping, Flooding and Draining arrangements, including :—
(a) Saltwater service.....
(b) Fire main.....
(c) Sanitary arrangements.....
(d) Scuppers
(e) Air escapes.....
Trials of above.....
7. Magazine Flooding, Spraying and Cooling arrangements :—
(a) Main Armament.....
(b) Secondary Armament.....
(c) Close Range Weapons.....
(d) Underwater Weapons.....
(e) Aircraft Armament.....
Trials of above.....
8. Fresh Water Services (Hot and Cold) :—
(a) Storage tanks
(b) Filling and delivery.....
(c) Arrangements for cooling and heating.....
(d) Air escapes.....
Trials
9. Oil Fuel Tanks and filling arrangements.....
10. Arrangements for replenishing at sea :—
(a) Fuel
(b) Ammunition
(c) Stores
Equipment Trials.....

11. Capstan and anchor gear :—
 - Harbour Trial*
 - Sea Trial*
12. Towing arrangements.....
13. Rigging, Derricks, Cranes, Davits, Winches :—
 - Nature and dates of tests*.....
 - Trials*
14. Awnings and canvas gear : Stowage :—
 - Trials*
15. Power boats : Other boats : Stowages :—
 - Boat Trials*
 - Lowering and Hoisting Trials*.....
16. Cold and Cool Rooms : *Tests*.....
17. Ventilation systems of the ship including :—
 - (a) Living spaces, Bathrooms, Heads, Galleys, Pantries and Serveries.....
 - (b) Sick Bay, Medical Action Stations, Dental Surgery
 - (c) Main and Auxiliary Machinery Spaces, Workshops, Laundry.....
 - (d) Storerooms, Offices.....
 - (e) Gdn Armament Spaces
 - (f) Low Power, Metadyne, Breaker and Switchboard Rooms. Telephone Exchange.....
 - (g) Radio Offices and Spaces.....
 - (h) Underwater Weapon Spaces.....
 - (i) D.C.H.Q., and Bases.....
Steering Positions.....
 - (j) Action Information Organisation Rooms.....
 - (k) Hangar and other Air Department Spaces.....
 - (l) Petrol and Oxygen Compartments.....
 - Trials of above*.....
18. Paint work : Ship's side, Superstructure, Internal...
19. Deck coverings.....
State type and maker of plastic deck coverings.....
20. Accommodation for Officers and Men.....
21. Bathrooms and Washplaces.....
22. W.C.'s and Urinals.....
23. Galleys, Bakeries, Serveries : *Trials*.....
24. Canteen, Bookstall, Soda Fountain, Ice Cream Bar
25. Sick Bay : Medical Action Station :—
 - Dental Surgery.....
 - M.D.G. Inspection*.....

26. Storerooms and Issuing Rooms.....
27. Church, Studies, Schools, Cinema, Recreation Space
28. Laundry : *Trial*.....
29. Offices
30. Shipwright Department Workshops.....
31. Steam Heating Arrangements : *Trial*.....
32. Damage Control H.Q's : Bases and Equipment.....
33. Marking of W.T. openings and other D.C. markings.....
34. Fire fighting equipment : *Trial*.....
35. Fire risks—reduction
36. Darken ship arrangements : *Trial*.....
37. Lifesaving equipment
38. Condition of Holds and Bilges.....
39. Incinerator : *Trial*.....

SECTION II—ELECTRICAL

50. High Power Installation :—
 - (a) Main Supply System.....
 - (b) Main Control System.....
 - (c) Distribution System.....
 - (d) All High Power Electrical Services, including :—
 - (i) Motors and control gear for all motor-driven equipment.....
 - (ii) Supplies to radio services.....
 - (iii) Supplies to Low Power services.....
 - (iv) General ship lighting
 - (v) Special lighting
 - (vi) Battery charging arrangements.....
 - (vii) Miscellaneous items.....
 - (e) Electrical arrangements in Magazines, Shell Rooms, Hangars, etc.—Form D.248.....

- (f) Degaussing Installation.....
- Electrical Trials of above.....
- A.S.C.B.S. Adequate Lighting Inspection.....

- 51. Emergency Arrangements :—
 - (a) Emergency Supply System.....
 - (b) Automatic Emergency Lighting.....
- 52. Armament Control and Communications Installation :—
 - (a) Armament Control and Communications Supply System
 - (b) Main Armament Fire Control.....
 - (c) Secondary Armament Fire Control.....
 - (d) Close Range Armament Fire Control.....
 - (e) Torpedo Control
 - (f) A/S Weapon Control.....
 - (g) Ship's exchange Telephones.....
 - (h) Ship's General Direct and Damage Control Telephones and Loudspeakers.....
 - (i) Armament Telephones and Loudspeakers.....
 - (j) Action Information Telephones and Loudspeakers.....
 - (k) Warning Telephones
 - (l) Sound Reproduction Equipment.....
 - (m) Target Indication
 - (n) Gyro Compass.....
 - (o) Remote Radar Display Circuits.....
 - (p) Miscellaneous Circuits.....
 - Electrical Trials of above.....
- 53. Lightning Conductors—Test.....
- 54. Electrical Workshops.....
- 55. Electrical Spare Gear; stowage and transport :
 - Trial

SECTION III—MACHINERY

- 60. Main Boilers, Associated Equipment and Auxiliaries : *Trials*.....
- 61. Main Machinery and Associated Auxiliaries :—
 - Harbour Trials*.....
 - Basin Trials*
 - Sea Trials*.....
 - Acceptance Trial*

62. Electric Generating Machinery : *Trials*.....
63. Steering Gear and Associated Equipment :—
Harbour-Trial.....
Sea Trial.....
64. Distilling Machinery : *Trials*.....
65. Hydraulic Machinery for :—
(a) Gun Armament.....
(b) Accelerators
(c) Flight Deck Services.....
Harbour Trials of above.....
Sea Trials of above.....
66. Refrigerating Machinery :—
(a) Magazine Cooling.....
(b) Food Cooling and Ice Making.....
(c) Air Conditioning.....
(d) Domestic Automatic Refrigerators.....
(e) Drinking Water Coolers.....
Trials of above.....
67. High Pressure Air Compressors, Reservoirs, and Systems
Low Pressure Air Compressors, and Systems.....
Trials of above.....
68. Main Engine Telegraphs : *Trials*.....
69. Inter Machinery Compartment Communications :
Trials
70. Other Auxiliary Machinery : *Trials*.....
71. Oil Fuel Transfer Arrangements : *Trials*.....
72. Oil Fuel Settling and Sullage System and Separating Plant : *Trial*.....
73. Feed Water Transfer Arrangements : *Trial*.....
74. Engineers' Workshops and Machinery : *Trials*.....
75. Spare Gear for Machinery and Boilers :—
(a) *Carried on board* : Stowage and transport.....
(b) *Carried on shore* : Dockyard where stowed.....

SECTION IV—GUN ARMAMENT

80. Main Armament :—
- (a) Guns and Mountings.....
 - (b) Magazines, Shell Rooms, Handing Rooms and Ammunition Hoists.....
 - (c) Fire Control System (including Directors, Transmitting Stations, R.P.C. and Target Indication)
 - (d) Hydraulic/Electric Power System :—
 - Gunnery Equipment Trials*.....
 - Gun Sight Test*.....
 - Test of Alignment of Directors and Sights*...
 - Tilt Test*.....
 - R.P.C. and Fire Control Operational Trial*...
 - Gun Trials*.....
 - Recoil Cylinders and Recuperators—Charging*.....
81. Secondary Armament :—
- (a) Guns and Mountings.....
 - (b) Magazines, Shell Rooms, Handing Rooms and Ammunition Hoists.....
 - (c) Fire Control System (including Directors, Transmitting Stations, R.P.C. and Target Indication)
 - (d) Hydraulic/Electric Power System :—
 - Gunnery Equipment Trials*.....
 - Gun Sight Test*.....
 - Test of Alignment of Directors and Sights*...
 - Tilt Test*.....
 - R.P.C. and Fire Control Operational Trial*...
 - Gun Trials*.....
 - Recoil Cylinders and Recuperators—Charging*.....
82. Close Range Weapons :—
- (a) Guns and Mountings and Gun Sights.....
 - (b) Magazines and Ammunition Supply.....
 - (c) Fire Control Systems (including Directors, R.P.C. and Target Indication).....
 - (d) Hydraulic/Electric Power Systems.....
 - Gunnery Equipment Trials*.....
 - Gun Sight Tests*.....
 - Test of Alignment of Directors and Sights*...
 - Tilt Test*.....
 - R.P.C. and Fire Control Operational Trial*...
 - Gun Trials*.....
 - Recoil Cylinders and Recuperators—Charging*.....
83. Small Arms Equipment and Magazines.....
84. Ammunition Embarkation Arrangements
85. Ordnance Workshops.....
86. Spare Parts—*Stowage and Transport*.....

SECTION V—UNDERWATER WEAPONS

90. Torpedo Tubes and Fittings : *Equipment Trials*.....
91. Torpedo Control System :—
 Alignment of Sights : Operational Trial.....
92. Torpedo Embarking and Transporting Arrangements : *Equipment Trial*.....
93. Torpedo Stowages and Workshops : *Equipment Trial*
94. Asdic Equipment : *Trial*.....
95. Depth Charge Gear :—
 Equipment Trial.....
 Firing Trial.....
96. Other A/S Weapons :—
 Equipment Trial.....
 Firing Trial.....
97. Magazines :—
 (a) Warhead
- (b) Depth Charge.....
- (c) Other Underwater Weapons.....
 Equipment Trials.....
98. Minelaying Gear :—
 Equipment Trial.....
 Sea Trial.....
99. Minesweeping Gear :—
 Equipment Trial.....
 Sea Trial.....
100. Anti-Torpedo Gear : *Trial*.....
101. Paravane Gear :—
 Equipment Trial.....
 Sea Trial.....
102. Diving Gear

SECTION VI—EXTERNAL COMMUNICATIONS

110. W/T Sets and Offices :—
- (a) Lower Transmitting Room, or Main W/T Office
 - (b) Lower Receiving Room.....
 - (c) Upper Transmitting Room, or Number 2 W/T Office
 - (d) Bridge Receiving Room.....
 - (e) V.H/F, R/T Office and Beacons.....
 - (f) “ Y ” Office
 - (g) Control circuits and positions.....
 - (h) D.F. Office and Navigational aids.....
 - (i) Aerials and aerial trunks.....
 - Testing and Tuning*.....
 - Shock and Vibration Trial*.....
 - Communication Trials*.....
 - D.F. Trials*
111. Radar Sets and Offices :—
- (a) Warning Aircraft.....
 - (b) Warning Surface.....
 - (c) Warning Combined.....
 - (d) Gunnery
 - (e) Other Sets.....
 - (f)* Remote Radar Displays.....
 - Testing and Tuning*.....
 - Shock and Vibration Trial*.....
 - Radar Trials*
112. Coding and Cypher Offices.....
113. Visual Signalling Apparatus.....
114. Recognition System—*Trial*
115. Departmental Internal Communications, including pneumatic tube system
116. Radio Workshops

SECTION VII—NAVIGATIONAL EQUIPMENT

120. Gyro Compasses : *D.C.D. Adjustment*.....
121. Magnetic Compasses : *D.C.D. Swing for Adjustment*
122. Fore Bridge. Chart House. Other Conning positions
123. Admiral's Bridge
124. Steering Positions
125. Navigational Communications : *Trials*.....
126. Echo Sounding Gear : *Trial*.....
127. Other Sounding Gear
128. Navigation Lights : *Trial*
129. Submerged Log : *Sea Trial*.....
130. Action Information Organisation :—
- (a) Operations Room and Bridge Plotting Room...
- (b) Aircraft Direction Room.....
- (c) Target Indication Room.....
- (d) Radar Display Room.....
131. Meteorological Arrangements : *D.N.M.S. Inspection*.....

SECTION VIII—AIR

140. Accelerators :—
 Dead Load Trials.....
 Aircraft Trials
141. Arrestor Gear and Safety Barriers :—
 Pull-out Trials
142. Aircraft Crane : *Trial*.....
143. Aircraft Lifts : Bomb Lifts : *Trials*.....
144. Petrol Tanks, Filling, Testing and Transfer Arrangements
145. Fuelling and De-fuelling of Aircraft : Arrangements
- Aircraft Trial*
146. Oil Immersion Heaters : *Aircraft Trial*.....
147. Aircraft Starter Arrangements : *Aircraft Trial*.....
148. Aircraft Lubricating Oil Arrangements, Supply and Waste.....
149. Air Department Internal Communications
150. Flight Deck Lighting.....
151. Other Flight Deck Equipment.....
152. Flying Control Position.....
 Talk Down Control System
153. Wind Speed and Direction Gear : *Sea Trial*.....
154. Aircraft Control Room
155. Briefing Rooms.....
156. Air Crew Ready Rooms and Messes (Ratings).
 Aircraft Handling Party Ready Room (or Messes)
 and Store Room.....
157. Hangar Doors : *Trial*.....
158. Hanger Spraying System; Scuppering: *Trial*.....
159. Hangar Fire Curtains : *Trial*.....
160. Hangar Control Position.....
161. Hangar Stowages for :—
 (a) Spare Gear and Engines.....
 (b) Maintenance Equipment and Tool Kits.....

162. Hangar Eyeplates for :—
(a) Lifting Engines
(b) Lifting spare parts, Drop Tanks, etc.....
(c) Securing all small gear
163. Ship's Mobile Equipment (Cranes, Tractors, etc.) :
 Securing Arrangements
164. Aircraft Safety Equipment Arrangements
165. Photographic Arrangements
166. Air Engineers' Workshops.....
167. Air Maintenance Control Arrangements.....
168. Aircraft W/T Workshops.....
169. Aircraft Radar :—
(a) Workshops
(b) Equipment and Stowages.....
170. Air Armament :—
(a) Workshops
(b) Bomb Rooms
(c) Other Magazines
(d) Ready Use Stowages
171. Air Intelligence and Allied Rooms.....

SECTION IX—STORES, DRAWINGS, ETC.

190. Are all Contractors' supply items of Naval Stores, as shewn in the relevant list included in the Contract Documents for the ship, on board and properly stowed?.....
191. Are all Admiralty supply items of Naval Stores shewn in the Sea Store Establishments (and relevant orders concerning equipment for the ship) on board and properly stowed?.....
- (For ships built by contract the Naval Store Officer of the ship's storing yard is to provide Naval Superintendent with a certificate in reply to this question. It should show any items that are outstanding on the day of the Final Inspection.)
192. What fittings and spare gear are laid apart? In which Dockyard?.....
- Is the gear marked with the ship's name?.....
193. Have all drawings and Tabular Statements been supplied—
- (a) Hull
- (b) Electrical
- (c) Machinery
- (d) Gunnery

We, whose names are hereunto subscribed, do certify that in our respective departments we have carefully inspected His Majesty's Ship..... and the articles of her stores and equipment, except those laid apart at the Dockyard, and find that she is complete and properly fitted in every respect for H.M. Service, subject to any exceptions indicated herein.

.....
 Director of Naval Construction (or Representative).
 Or Manager, Constructive Dept.

.....
 Engineer-in-Chief of the Fleet (or Representative).
 Or Manager, Engineering Dept.

.....
 Director of Electrical Engineering (or Representative).
 Or Electrical Engineering Manager.

.....
 Director of Naval Electrical Department
 (or Representative).

.....
 Director of Airfields and Carrier Requirements
 (or Representative).

.....
 Director of Navigation.

.....
 Engineer Rear Admiral on Staff of Commander-in-
 Chief (or Representative).

.....
 Captain Superintendent, Admiralty Signal
 Establishment
 (also representing Director of Radio Equipment).

.....
 Captain, H.M.S. "Excellent"
 (also representing Director of Naval Ordnance).

.....
 Captain, H.M.S. "Vernon"—Captain A/SEE
 (also representing Director of Underwater Weapons).

.....
 Warship Electrical Superintendent.

.....
 Gunnery Engineer Overseer.

.....
 Ship Overseer.

.....
 Engineer Overseer.

.....
 Superintending Naval Store Officer.

.....
 Captain of the Dockyard.

(H.M. Dockyard Ships Only).

We concur in the foregoing report.

.....Commanding Officer
.....Navigating Officer
.....Gunnery Officer
.....T/A.S. Officer
.....Communications Officer
.....Radar Officer
.....Engineer Officer.
.....Electrical Officer
.....Boatswain
.....Shipwright Officer
.....Air Officer

H.M.S.

Concur and forwarded.

(a) Date of satisfactory Acceptance Trial.....

(b) Date and place of Delivery (Contract Built Ships only).....

.....Superintendent of H.M. Dockyard.

.....Naval Superintendent of Contract Built Ships.

(a) This is to be regarded as the final completion date for all purposes, whether the ship is Dockyard or Contract Built (without prejudice to outstanding liabilities).