

ANNEX 21J

FIREFIGHTING KILL CARDS

1. Application of Kill Cards

Ships are to raise Kill Cards for all 'high fire risk', 'explosive risk' and the 'high value' compartments. Cards may be raised for other compartments at the discretion of ships officers. Compartments and spaces should be classified according to the risk inherent in their function, ie:

- a. **High Fire Risk.** Main and auxiliary machinery spaces, generator compartments, uptakes and downtakes, ventilation trunks from the machinery spaces up to the fire flaps, machinery removal and escape trunks to the above compartments, fuel pump spaces, hangars and galleys.
- b. **Explosive Risk.** Magazines, lockers, RU stores and designated danger areas as defined in JSP 862 Parts 1, 2 and Addendum - MOD Maritime Explosive Regulations - Surface Ships, Submarines and MAPS.
- c. **Electronic and Operational Spaces of High Value.** Operations room, computer rooms, designated communications and weapon equipment compartments, ship control centres, navigation equipment compartments, switchboard rooms, electrical distribution centres, telephone exchanges, conversion equipment rooms, EW spaces, main cable and wiring spaces.
- d. **High Voltage (HV) Compartments.** High voltage decay times must be indicated on individual equipment and recorded on compartment Kill Cards. Where a compartment contains no HV equipment but is transited by HV cables the compartment is to be considered as a HV compartment in the event of a fire within. Kill Cards for such compartments are to have HV cable runs annotated in **RED**.

2. Disposition of Kill Cards

The Kill Cards are provided as Form S.3021 and are A4 size. They can be bound together to form a loose-leaf book that can be indexed. They are to be indexed numerically. The completed cards are to be available as follows:

- a. HQ1 (and HQ2) - full sets.
- b. Section Bases/FRPPs - cards for compartments within the responsibility of the Section Base/FRPP.
- c. An additional card is to be secured adjacent to the outside of the compartment door.

3. Information

- a. Kill Cards must include the following information if applicable:
 - (1) Recommended minimum time of operation of each steam/gas drench or foam/water spray system.

(2) Equipments, stores, services etc contained within the compartment with those items of extra high risk being so noted, and their position in the compartment stated (a fuel line, hydraulic service pipe or air service pipe could add appreciably to the hazard of the fire if ruptured).

(3) Any other relevant information, displayed on a simple diagram of the compartment layout to assist firefighters entering the compartment. The diagram should also include positions of obstructions and passageways.

(4) The presence of any structure other than mild steel, eg aluminium or melamine plastic laminate.

(5) The presence and details of any Fire Barrier Insulation (FBI) fitted is to be indicated by a broken black line with the notation 'Fire Barrier Insulation', followed by the type of material in brackets ie Type A90, Type A60 or Type A30 (see [Fig 8B-1](#)).

(6) Boundary temperature monitoring points.

b. A generic example of a completed Firefighting Kill Card is at [Fig 21J-1](#) (front) and [Fig 21J-2](#) (back). A blank interactive copy of a Firefighting Kill Card is available on Page 21J-6 which can be printed off once completed.

4. Smoke Clearance Plans

A space is provided on the Kill Card for smoke clearance action. If this space is too small to contain the information, a separate Smoke Clearance Plan is to be made up, with an alphabetical cross-reference on the Kill Card. An example of a Smoke clearance Plan is at [Fig 21J-3](#).

Fig 21J-1. Example of a Kill Card (Front)

Firefighting Kill Card No. 209

RN Form S3021
(Revised 11/12)

Ventilation Control				Danger Hazards		Compartment	
	Fan	Starter at	Flaps/Slides at	Within the Compartment	External to the Compartment		
Supply	ACU 17	3E STBD	1E	440V R 22 GAS LUBOIL (IN CW PLANT)	HP & LP AIR (3/4F FAMR) DIESEL FUEL (3/4F FAMR) LUBOIL (3/4F FAMR) 600 V (3/4F FAMR) 440 V (ALL COMPTS)	CHILLED WATER PLANT RM Location Mark 4E Frame Station Numbers 64 - 72 ZONE 1B Nearest F & RP Post FWD 2D	
	3E 15 RECIRC FAN						
Exhaust	01 F19 EF 10	01F STBD	01F HWTC	Firefighting Installations			
				Within the Compartment		External to the Compartment	
				Fixed	Portable	Fixed	Portable
				SMOKE DETECTORS	1 AFFF EXT	1 HYDRANT	1 CFHR
				2 HYDRANTS	2 No HOSE 6M	1 DOUBLE HOSE BASKETS	1 INDUCTOR
				2 DOUBLE HOSE BASKETS	2 No HOSE 12M	1 No2 HOSE 6M	1 AFFF EXT.
					1 CO ₂ EXT	1 No 2 HOSE 12M	(3E LOBBY)
					2 FF NOZZLES		
Issue:	Natural Ventilation		VALUE IN				
	SUPPLY FROM No15 & 16 ACU 3E1		No15 & 16 ACU 3E1				
Dated:	Smoke Clearance Action			Pumping Out Arrangements		Electrical Supplies to be Isolated	
	OPEN HWTC AT 01F STBD FOR EXHAUST FAN 01F19. OPEN IE2 AIRLOCK DOORS FWD. OPEN 1/2 E HATCH FWD. OPEN 2/3E HATCH AFT. OPEN 3/4E HATCH AFT. SHUT ALL OTHER DOORS/HATCHES IN E SECTION. RUN EXHAUST FAN 01F19. RUN ACU17. SMOKE COMMS: 3E ADJ GYRO ROOM.			ONE 75 M ³ /HR SALVAGE EDUCTOR NEAREST OVER BOARD DISCHARGE AT 2E2 SR PANTRY.		ACP1: BKRS F-16(N). H-16 (A) ACP2: BKRS H-15(N). F-15 (A) HPSW: PUMP: MCCB E-R1-07 ACP PUMPS: MCCB E-R2-6, E-R2-7 Hazardous Systems to be Isolated SHUT LP AIR VALVE A1S 2007 IN 3/4F FAMR	

Fig 21J-2. Example of a Kill Card (Back)

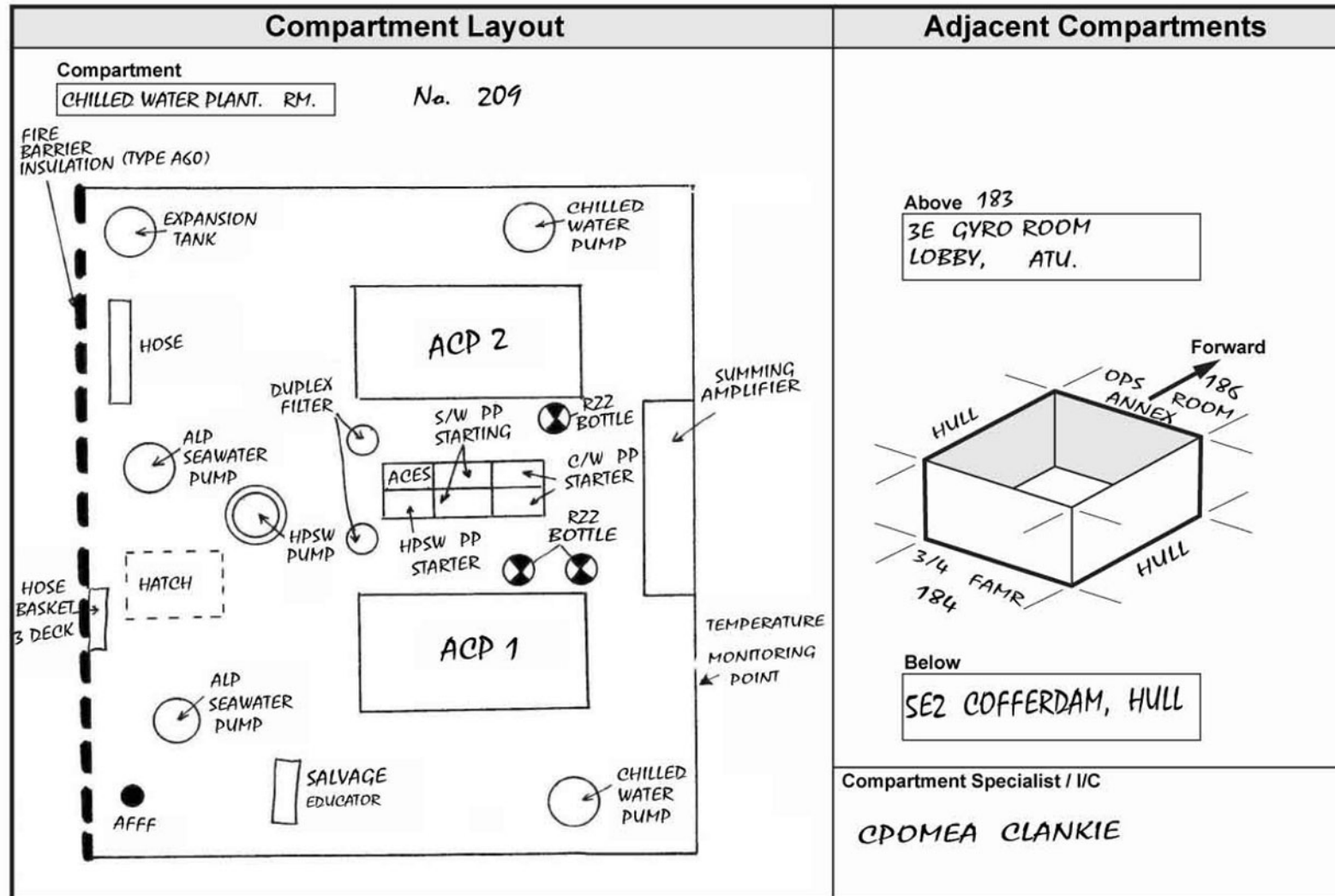


Fig 21J-3. Example of a Smoke Clearance Plan

SMOKE CLEARANCE PLAN		
2P 2Q 2R Smoke logged compartment doors open Non-smoke logged closed	1. Sentries to be placed on <u>ALL</u> open doors and hatches. 2. Briefed to shut openings on “ BRACE ” Command. 3. HQ1 informed at end of smoke clearance. 4. Do not start ATUs unless fan is in smoke free area. 5. Smoke Curtains to be tied back.	K
OPEN DOORS AND HATCHES	CLOSED DOORS AND HATCHES	ADDITIONAL EXHAUST FANS
Doors: 2K/M, 2M/P, 2P/Q, 2Q/R and 2R/2S1 (Aft Airlock) If fire in JRs Bathroom 2R ₁ , DC Store 2R _{z1} of Undressing Area 2S _z , open appropriate doors to atmosphere and close airlock 2R/2S.	Door: 2IJ/K Hatches: 2N, 2P, 2Q, 2S, 1K and 1M. AER Hydraulic Hatch. FER Hydraulic Hatch. FAMR Hydraulic Hatch.	Exhaust No 8 Starter in AFU No 5. Exhaust No 17 2R Starter in Laundry. Exhaust No 18 2S Starter in 2R Lobby.
		ATUs (See Note 4 above)
		ATU No 14 2R. AFU No 5 1N. Supply Fans: Supply No 6 1P Starter in Trans and MG Compartment, Supply No 8 2R Starter in Laundry and Supply No 9 2R Starter in Drying Room.
BLOW		
Machinery Vent Running: FER Supply Port & Stbd, AER Supply Port & Stbd and AAMR Supply Port & Stbd.		
Machinery Vent Stopped: FER Exhaust Port & Stbd, AER Exhaust Port & Stbd and AAMR Exhaust Port & Stbd.		

