

CHAPTER 2

CBRN AND DAMAGE CONTROL RESPONSIBILITIES

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CHAPTER 2**CBRN AND DAMAGE CONTROL RESPONSIBILITIES****0201. General**

As with every aspect of a ships operation, the ultimate responsibility for CBRN and Damage Control is with the Commanding Officer (CO). Responsibility for preparation and training in CBRN and Damage Control rests with all departments. The application of countermeasures, although mainly the responsibility of the CBRN and Damage Control team, is shared by those departments controlling the spaces in which countermeasures may be needed (eg machinery spaces, armament quarters, hangars, galleys and storerooms). It is the duty of everyone, by good ship husbandry, knowledge of the ship and the proper appreciation of the CBRN and Damage Control problem, to minimise the risks to a ship at sea and in harbour, in peace and in war. Implicit in this is a responsibility to enhance individual and collective lifesaving by a thorough knowledge of the survival and CBRN protection equipment onboard. CBRN and Damage Control and survival at sea training are indisputably linked and ships organisations are to reflect this. The CBRN and Damage Control Command and Control organisation is covered in [Chapter 8](#).

0202. Executive Officer (XO)

- a. The XO is responsible to the CO for:
 - (1) Being able to assume the CBRN and Damage Control responsibilities of the CO.
 - (2) Directing the CBRNDCO when one is appointed.
 - (3) Assuming the duties of the ships Damage Control Officer where no officer is appointed specifically for Damage Control duties, ie:
 - (a) Arranging training and control of HQ1 watchkeepers and ensuring the effectiveness of the watertight integrity, safety, rounds and keys organisation, except when MEO is closed up in HQ1 as a result of an emergency.
 - (b) Monitoring changes in the watertight condition.
 - (c) Monitoring changes in the state of readiness.
 - (d) Coordinating the whole ship CBRN and Damage Control training organisation.
 - (e) Being chairman of the Damage Control Planning and Training Committee.
 - (f) Arranging the maintenance of the Damage Control Watch and Station Bill.
 - (g) Coordinating the production of CBRN and Damage Control Standing Orders.

(h) Arranging the maintenance of the Master CBRN and Damage Control Training and Material Assessment Log.

(i) Ensuring CBRN and Damage Control publications are amended.

(j) Directing the Whole Ship CBRNDC Qualified (WSQ) and coordinating the work of all CBRNDC Qualified personnel.

(4) Carrying out the Damage Control duties of a Head of Department for the Warfare Department.

(5) At action, being stationed as directed by the Command or rove in conjunction with the EWO, visiting scenes of incidents and all Damage Control Command nodes.

(a) Monitoring Damage Control preparations for action.

(b) Assessing the extent of damage and incident response keeping the MEO/DCO and WEO/Command informed of the overall situation.

(c) Providing direction and guidance at incidents and Command nodes if required.

(d) Directing the CBM who roves on the upperdeck.

(6) Training the whole Ship's Company in survival and lifesaving.

(7) Ensuring that a minimum of 10% of the Ship's Company **ONBOARD** are first aid trained.

(8) Being the Officer with Medical Charge when a Medical Officer is not borne.

b. Where an officer is appointed specifically for Damage Control duties, some of the above Executive Officers CBRN and Damage Control duties may be delegated to him.

0203. Heads of Departments (HODs) - General

Heads of Departments are responsible to the Command for:

a. Carrying out the Damage Control duties of an officer and supervising all other officers in the department in their Damage Control duties.

b. Giving technical advice to the Command on their own departmental aspects of CBRN and Damage Control.

c. Administering departmental CBRN and Damage Control, ie:

(1) Producing their departmental section of ships CBRNDC Orders.

- (2) Producing Damage Control orders for any self-contained Damage Control sections that may be allied to the departmental function. (eg main machinery spaces, flight decks, hangars, vehicle decks and docks in certain ships).
 - (3) Providing suitably qualified persons to the Whole Ship CBRN and Damage Control training organisation.
 - (4) Providing personnel to the CBRN and Damage Control organisation as required by the Watch and Station Bill.
- d. Directing the departmental CBRNDC Qualified personnel.
 - e. Managing departmental CBRN and Damage Control training.
 - f. Managing aspects of Whole Ship CBRN and Damage Control training for which the department is responsible.
 - g. Being a member of the ships CBRN and Damage Control Planning and Training Committee and assisting in the production and execution of the Whole Ship CBRN and Damage Control training programme.
 - h. Provisioning of specialist advice and maintenance for CBRN and Damage Control equipment which is the responsibility of their department, but situated in a space owned by another department.
 - i. Bringing to the attention of the responsible department details of any defects found with CBRN and Damage Control equipment, situated in their departmental spaces, which is not the responsibility of their department.

0204. Marine Engineer Officer (MEO)

The MEO is responsible to the Command for:

- a. Carrying out the Damage Control duties of a Head of Department for the Marine Engineering Department.
- b. Taking overall charge of the HQ1/SCC, at State 1 and during emergencies in States 2 and 3 as the Internal Battle Controller(IBC).
- c. Reacting to the Command Aim.
- d. Informing the Command of all matters which effect the availability of the ship as a weapons platform, advising on the implications of incidents and defects, and recommending priorities for repairs. Areas covered include:
 - (1) Propulsion systems.
 - (2) Ship services.
 - (3) Services to weapons, aircraft and sensors (except where a WE or Air department responsibility).

- (4) Hull structure.
 - (5) Watertight and gastight integrity.
 - (6) Stability.
 - (7) Damage control and firefighting.
 - (8) CBRN collective protection.
 - (9) Casualties.
- e. Coordinating the activities of, and giving priorities and direction to the SCC team, ie:
- (1) The DCO.
 - (2) The Propulsion Manager.
 - (3) The DCO(L).
- f. Giving priorities and direction to officers in charge of self-contained Damage Control Sections and coordinating their activities with that of the SCC team.
- g. Liaising with the WEO on the interface between DC and ME activities, and warfare teams, quarters crews, monitoring and decontamination teams, cleansing personnel and the Weapon Repair Party.
- h. Monitoring reports from the XO/EWO, when roving, recommending incidents to visit.
- i. Authorising the use of non-automatic fixed firefighting and flooding systems and coordinating stability countermeasures.
- j. Recommending to the Command, changes in the Damage Control State of Readiness to deal with peacetime emergencies if the incident is beyond the capability of watchkeepers or the SSEP.
- k. The custody and maintenance of all damage control and firefighting equipment except for that on the charge of the Air Department, including the following (day to day checks and servicing may be delegated to the Part of Ship Officer responsible for the compartment in which the equipment is stowed):
- (1) Portable firefighting equipment.
 - (2) Portable pumping equipment.
 - (3) Breathing and life support apparatus.
- l. The maintenance, integrity and operation of all material arrangements for the collective protection from fire damage and CBRN hazards, including the following:

- (1) Watertight and gastight structure, fixtures and fittings.
 - (2) Ventilation, filtration, air conditioning and smoke clearance systems.
 - (3) All fixed firefighting systems except those that are the responsibility of the WEO or AEO.
 - (4) Fixed pumping and salvage systems.
- m. The organisation and training of fire, repair and damage control parties.
- n. Training all ships personnel in firefighting methods.
- o. Ensuring that HQ1, HQ2 or AHQ, Section Bases and FRPPs are provided with all necessary drawings, lists, check-off, route and isolation cards, aides-memoir and other support equipment required to assist in the proper management of CBRN and Damage Control at action and in peace-time emergencies both at sea and in harbour.

0205. Logistics Officer (LO)

The LO is responsible to the Command for:

- a. Carrying out the Damage Control duties of a Head of Department for the Logistics Department.
- b. Being the Damage Control Officer (DCO) except where an officer is appointed specifically for Damage Control duties.
- c. As DCO, assisting MEO in HQ1, when closed up in an emergency at States 2 and 3.
- d. The special provision of food when the situation precludes normal feeding arrangements.
- e. The custody, provision and re-supply of naval and victualling stores at all states of readiness, including arrangements for emergency supply, together with the:
 - (1) Protection of stores from damage or contamination.
 - (2) Dispersal of stores.
 - (3) Stowage of stores in order to allow access to bulkheads or ships sides and to minimise fire and flooding risks.
 - (4) Custody and stowage of IPE and CBRN stores except those in the charge of Weapon Engineering or medical staffs.
 - (5) Issue of IPE and, when required, clean clothing at cleansing stations.
- f. Training of Action First Aid Party personnel in support of medical staff.

- g. Training of cleansing station crews.
- h. The whole-ship training programme in respect of individual CBRN personal protection measures and procedures.

0206. Weapon Engineer Officer (WEO)

The WEO is responsible to the Command for:

- a. Carrying out the Damage Control duties of a Head of Department for the Weapon Engineering Department.
- b. Acting as the Command Adviser in the Action State and during Damage Control State 2 and State 3 emergencies.
- c. The custody and maintenance of all CBRN fitted and portable monitoring and decontamination equipment.
- d. The management of the CBRN organisation.
- e. The whole-ship training of personnel with monitoring and decontamination responsibilities, including operational decontamination.
- f. The training of Weapon Repair Teams.
- g. The maintenance, integrity and operation of magazine fixed firefighting systems.
- h. The custody and maintenance of aircraft firefighting arrangements, when the Ships Flight is not embarked.
- i. Carrying out the duties of the ships Radiation Safety Officer (RSO).

0207. CTG CBRN Adviser

WEOs of capital ships are to complete the 2 day CBRN Staff Officers' Briefing at the Defence CBRN Centre (DCBRNC), Winterbourne Gunner to prepare them to undertake the role of CTG CBRN Adviser, should that be required. The deployable UK Maritime Battle Staffs (COMUKMARFOR and COMUKAMPHIBFOR) have bespoke CBRN Advisers integral within their staff. COMATG may be allocated a CBRN Adviser for specific operations but it is anticipated that he will also have a bespoke CBRN Adviser in due course.

0208. Head of the Air Department

- a. The Head of the Air Department is responsible to the Command for:
 - (1) Preservation of watertight and/or gastight integrity in the Air Department spaces to accord with the ships ordered Damage Control condition.
 - (2) The distribution of portable firefighting equipment (taking guidance from the CBRNDC Class Book) and damage repair equipment in Air Department spaces.
 - (3) The maintenance of specialised aircraft firefighting equipment.

- (4) The continuation training of Air Department personnel in specialised aircraft firefighting techniques, and those CBRN monitoring and decontamination procedures that are peculiar to aircraft.
 - (5) In conjunction with the MEO, the firefighting and damage repair in all major Air Department spaces, augmenting the ships CBRN and Damage Control organisation when required and as directed by HQ1 (or HQ2).
- b. If a ship operating aircraft has no separate Air Department, CBRN and Damage Control matters remain the responsibility of the XO and the respective HODs.

0209. Medical Officer

- a. The particular aspects of CBRN and Damage Control for which the Medical Officer (or the Logistics Officer where no Medical Officer is borne) is responsible are:
- (1) The medical treatment of casualties.
 - (2) The organisation for immunisation of personnel against BW agents and other prophylactic or post-attack medical countermeasures against BW or CW agents.
 - (3) Assistance to the WEO in evaluating for the Command (with regard to future operations) the effects of biological and chemical agents and nuclear radiation experienced by the Ship's Company.
 - (4) The pathological effects of biological and chemical agents and nuclear radiation.
 - (5) First aid training.
 - (6) Investigating and dealing with the contamination of food and fresh water.
 - (7) The organisation, equipment and manning of first aid posts and emergency operating stations, and the distribution and periodical turnover of first aid equipment at quarters.
 - (8) Interpreting and holding the permanent clinical records of radiation received by the Ship's Company, and records of personnel contaminated by B or C agents.
 - (9) The custody of CBRN medical stores, eg WTK (B&C), BATS, Combopens and NAPS.
- b. The Medical Officer (or senior medical rating where no MO is borne) is responsible to the Logistics Officer for the execution and coordination of first aid training, in respect of the coordination of Action First Aid Party initial and continuation training.

0210. Hull Section Officer

In ships so complemented, the Hull Section Officer is the structural specialist and is responsible to the MEO (see BRd 3000). In circumstance of high Damage Control risk, their place of duty is normally HQ1. Should he consider that he is needed at the scene of an incident elsewhere, he may proceed there, subject to the approval of the MEO. Their duties include:

- a. The training of all DC personnel in the care and maintenance of watertight openings, leak stopping and shoring.
- b. The distribution and maintenance of all materials for structural repair.
- c. The maintenance of hull structure, fittings and systems.

0211. Deputy Marine Engineer Officer (DMEO)

The DMEO is to be the MEO's immediate deputy in all CBRN and Damage Control related matters. The DMEO is to assume the MEO's action role if the MEO is unable to undertake or continue their duties. In frigates and destroyers where only two Marine Engineering Officers are borne, the DMEO is to be based at the FRPP most distant from HQ1, normally forward. The overriding aim of this stationing is to ensure the DMEO's physical displacement from the MEO prior to major damage being sustained and thus reduce the risk of both officers being injured in an attack. In ships where only one Engineer Officer is borne, supported by a WO1 or WO2 as deputy, another suitably trained officer with good ship knowledge should be stationed in charge of this FRPP. The WO/SR deputy to MEO is to remain responsible for machinery control as the Action MEOOW.

0212. Deputy Weapon Engineer Officer/Section Officer

- a. The DWEO/Section officer is the WEO's deputy in all CBRN and Damage Control related matters and is to assume the WEO's action role if WEO is unable to undertake or continue their duties. Otherwise, at Action Stations he is based at the Weapon Section Base (WSB) controlling the activities of the Weapon Repair Party (WRP).
- b. The DWEO/Section Officer will be the CBRN Protection Officer (CBRN PO), based in the WSB, receiving information from the CBRNPO Assistant in HQ1, coordinating responses and briefing the WEO as Command Adviser.
- c. When the CBRN threat level increases to Medium, DWEO is to delegate technical matters to the WO2WEAs in the WSB, and act as CBRNPO in HQ1. If a Section Officer is borne, he is to transfer from the Alternative WSB to the WSB to supervise technical matters.

0213. Officer of the Day (OOD)

All Officers in the OOD roster must be capable of undertaking the following duties:

- a. Being responsible for the safety and security of the ship and the Ship's Company in harbour.
- b. Being aware of all hazardous activities being undertaken in the ship.

c. Controlling the following routine tasks of the Duty Watch/Harbour Fire and Emergency Party (HFEP):

- (1) Briefing and allocating tasks to the HFEP at the start of the duty period.
- (2) Directing the work of HQ1 and gangway watchkeepers.
- (3) Monitoring alarms and emergency telephones.
- (4) Rounds.
- (5) RADHAZ.
- (6) Watertight and gastight integrity.
- (7) Fuel and ammunition danger pipes.
- (8) Welding and burning.
- (9) Keys.
- (10) Responding to emergencies, including the following actions:
 - (a) Make pipes directing actions by the HFEP, the remainder of the Ship's Company and any visitors.
 - (b) Crash stop ventilation.
 - (c) Start HPSW system pumps.
 - (d) Inform outside authorities in accordance with local orders.

d. Taking personal charge of the HFEP during emergencies, normally from HQ1 by:

- (1) Assessing the situation and establishing control.
- (2) Directing the activities of all emergency parties and specialist personnel.
- (3) Clearing ship of all other personnel if necessary and directing them to supplement the HFEP as required.
- (4) Liaising with all outside authorities and integrating any offered support with the activities of the HFEP, eg Fire Rescue Service (FRS).
- (5) Responding to external incidents in accordance with local orders, eg PORTSAFE.

- (6) Making follow-up reports following incidents, consulting or recalling other ships officers as required.
- (7) Ensuring that a narrative of events is kept.
- e. Conducting Duty Watch safety training in accordance with the Harbour Watch Training Log.

0214. Other Officers

All other Officers must be capable of:

- a. Carrying out the CBRN and Damage Control duties of an AB, LH and SR.
- b. Carrying out the CBRN and Damage Control duties of a Divisional Officer.
 - (1) Checking ratings' personal CBRN and Damage Control equipment.
 - (2) Monitoring and conducting advancement and ship knowledge training.
 - (3) Updating divisional CBRN and Damage Control documentation.
 - (4) Forwarding information for updating the ships CBRNDC Master Training and Material Assessment Log.
 - (5) Monitoring and counselling of stress casualties.
- c. Carrying out the duties of a Part of Ship Officer:
 - (1) The care of Damage Control markings in the part of ship.
 - (2) Maintaining the structure, fittings and CBRN and Damage Control equipment in the part of ship that is not the clear responsibility of another department or officer.
 - (3) Passing to the responsible department details of defects of CBRN and Damage Control equipment in departmental spaces that is not the responsibility of the owner department.
 - (4) Ensuring a high standard of CBRN and Damage Control and equipment knowledge of personnel who live or work in the part of ship.
- d. Carrying out the duties of an Officer in Charge of a quarter, post, section or living space:
 - (1) Taking charge of immediate measures to deal with CBRN and Damage Control incidents occurring in their spaces.
 - (2) Training of quarter's crews and users of a space to take immediate CBRN and Damage Control measures in that space.

- (3) Keeping HQ1 and dedicated Damage Control parties informed of immediate Damage Control actions carried out by quarter's crews and users of spaces.

0215. Departmental CBRNDC Qualified (CBRNDCQ) Personnel

- a. In ships of DD/FF size and above, all departments are to have at least one CBRNDC qualified senior rating. Numbers will depend on the ships Scheme of Complement, but in a typical DD/FF there are normally 6 CBRNDCQs.
- b. It will seldom be possible to provide such senior ratings for Damage Control duties on a full time basis, since personnel suitable for the task will, by experience and position, have time consuming specialist commitments to fulfil. The senior ratings nominated for coordination of Damage Control and/or CBRN departmental tasks must be capable of directing the Damage Control work of ratings within their own department. They are additionally to play a full part in the planning, coordination and execution of the Whole Ship Damage Control/CBRN and survival training programme.

- c. In general terms, CBRNDCQs undertake the duties listed below:

(1) General

- (a) In conjunction with other CBRNDCQs, to check that the recommended CBRN and Damage Control practices (tidy living, correct stowage of gear, maintenance of markings and fittings, etc) are followed at all times.
- (b) In conjunction with other CBRNDCQs, to train ratings in their general CBRN and Damage Control responsibilities and for advancement to higher rate.
- (c) Where no suitably qualified senior rating is borne in a particular department, to assist with general and advancement training in that department.
- (d) In liaison with the Whole Ship CBRNDCQ (WSQ), ensure that the BR 2170 series is maintained to the correct change state with relevant directives eg DINs and RNTMs inserted in the front cover until formal amendment.

(2) In Support of their Head of Department

- (a) To undertake specific instruction in particular aspects of Damage Control as directed by the Damage Control Officer (DCO) or their HOD.
- (b) To assist in the writing and amending of CBRNDC Orders.
- (c) To provide inputs to the CBRNDC Master Training and Material Assessment Log and to bring attention to any amendments that should be made to the CBRNDC Class Book (CB 4538 series).

(d) To bring to the notice of the appropriate HOD shortcomings in the CBRN and Damage Control organisation, the CBRN and Damage Control Watch and Station Bill, and in CBRN and Damage Control material standards.

(e) To be conversant with BRd 2170(3) - Damage Control Stores Catalogue for HM Surface Ships, HM Submarines and RFA and to ensure the outfit of stores for which the department is responsible is under constant review, so that the correct stocks are held and replacements demanded as necessary.

(f) To arrange instruction and exercises for those ratings detailed as plotters and communication numbers in the CBRN and Damage Control organisation, in conjunction with other CBRNDCQs as appropriate.

(g) To coordinate and, where appropriate, conduct training in delegated departmental CBRN and Damage Control and survival topics including those for which the department has a whole-ship training responsibility.

(3) **In Liaison with Other Departments**

(a) To liaise closely with other departmental CBRNDCQs and departmental coordinators and, in particular, to keep the Warfare Branch CBRNDCQ, in their capacity as overall Survival and Damage Control Training Coordinator, informed of training intentions.

(b) To assist as necessary with coordination of whole ship Damage Control training commitments and exercises.

d. Certain specific responsibilities are allocated to departmental senior ratings as follows:

(1) **Warfare Department**

(a) In the training coordination role the XO, as DCO, is to be supported by a Warfare Branch CBRNDCQ in the position of WSQ. This position will be filled iaw the relevant ship SOC. Their function is to coordinate and keep records of the training activities undertaken by the Damage Control organisation. Where a dedicated CBRNDCQ is borne he is to undertake the duties at [sub para \(2\)](#) and [sub para \(3\)](#) below.

(b) The WSQ is to ensure that all relevant CBRN and Damage Control directives are disseminated to the Ship's Company and any actions required by them are quickly undertaken. He is also to ensure that the BR 2170 series is at the correct change state and that all directives are inserted in the front cover until formal amendment is made.

(c) The WSQ is to maintain the Master CBRN and Damage Control Training and Material Assessment Log (see [Annex 36C](#)).

(d) The WSQ is to assist the XO in the training of the Warfare Branch ratings in CBRN and Damage Control matters and to ensure the correct conduct is maintained during CBRN and Damage Control communication and whole ship exercises.

(e) In the majority of ships, the Chief Bosun's Mate (CBM) will be free to rove on the upper deck in the Action State. To ensure that they contribute effectively in this CBRN and Damage Control roving role, they must be CBRNDC qualified. This requirement, coupled with the NILE training already given as part of Seaman Specialist training, renders them ideally suited to assist the WSQ in the Warfare Department aspects of whole ship CBRN and Damage Control training.

(2) **Marine Engineering Department**

(a) Under the direction of the MEO, the ME Department CBRNDCQ is to coordinate the organisation and training of fire and repair and damage control personnel and the instruction of the whole Ship's Company in firefighting measures. The ME Department CBRNDCQ is normally to be the CPOET(ME)/(L).

(b) The ME Department CBRNDCQ is to be assisted in the execution of their duties by other CBRNDCQs.

(3) **Weapon Engineering Department.** In addition to the duties outlined in [Para 0222](#), the WE department CBRN senior rating is to be the CBRNPO Assistant.

(4) **Logistics Department**

(a) The Logistics Officer is to be supported by the Logistics Department Coordinator who, himself, need not be Damage Control or CBRN trained. The Logistics Department Coordinator is to assist in coordination of Action First Aid Parties' training, and is to direct the involvement of CBRN qualified Logistics Department senior ratings in CBRN and Damage Control related tasks.

(b) A CBRN qualified Logistics Department senior rating is to be responsible for training Cleansing Station Crews and for the overall training of the Ship's Company in CBRN individual protective equipment (IPE) dressing and undressing procedures as required.

(c) A CBRN qualified Logistics Department senior rating is to lead in the training of the Ship's Company in CBRN personal protective measures.

(d) A Logistics Department senior rating is to have custody of all CBRN protective clothing and CBRN stores except those in the specific charge of the CPOET(WE) or medical staff.

0216. Damage Control Officer - Large Ships

In large ships where an officer is appointed specifically for Damage Control duties they are to be known as the CBRNDCO. They assist the XO and provide professional advice on CBRN and Damage Control matters to other HODs in the discharge of their CBRN and Damage Control responsibilities. Their principal duties are:

- a. To be the CBRNDCO.
- b. To produce CBRN and Damage Control Standing Orders, including those for the various states of readiness and to check that Departmental Regulators maintain accurate departmental Watch Bills.
- c. To arrange and supervise all CBRN and Damage Control training programmes and exercises, in support of HODs.
- d. The overall organisation of CBRN and Damage Control personnel and equipment throughout the ship.
- e. To direct the organisation for maintaining watertight and gastight integrity in the different Damage Control conditions, and the arrangements for closing down the ship.
- f. The organisation and training of HQ1 CBRN and Damage Control watchkeepers, the maintenance of the ordered watertight and gastight conditions, and the control of keys (except keys to magazines in the 'security' condition).
- g. Monitoring the maintenance of all CBRN and Damage Control markings.
- h. Monitoring the correct stowage and readiness of CBRN and Damage Control equipment, except that for which the CBRNPO or Medical Officer is responsible.

0217. Damage Control Officer (DCO)

In ships such as DD/FF, where no officer is appointed specifically for Damage Control duties, another officer, normally the Logistics Officer, will be the DCO. They are to be fully conversant with the ships CBRN and Damage Control organisation and ship layout and will direct the employment of damage control and FAP personnel, referring to the MEO for priorities and guidance. The duties of the DCO are:

- a. To be in HQ1 at State 1 and during emergencies at States 2 and 3.
- b. To direct CBRN and Damage Control preparations by:
 - (1) Monitoring changes in Watertight and Gastight Condition.
 - (2) Monitoring changes in the State of Readiness.
- c. Giving priorities to CBRN and Damage Control incidents and monitoring reactions of Damage Control Section Bases (FRPPs in single Section ships).
- d. Coordinating reaction to CBRN and Damage Control incidents that cut across Section or FRPP area boundaries.

- e. Re-deploying resources between Sections or FRPs when required.
- f. Ensuring that immediate reactions to incidents by quarter's crews etc. are coordinated with the work of the dedicated FRP and First Aid Parties.
- g. Directing the deployment of personnel taken from outside the damage control organisation to reinforce DC parties, including Warfare personnel allocated by the Command at action and 'spare hands' during emergencies.
- h. Redeploying the monitoring and decontamination teams elsewhere within the DC organisation, when approved by the Command, at low CBRN risks.
- i. Managing use of the HPSW system and coordinating its re-configuration following damage.
- j. Acting as the interface between HQ1 and the rest of the SCC by:
 - (1) Reacting to priorities and directives from the MEO.
 - (2) Keeping the MEO informed of CBRN and Damage Control incidents and the DC organisations reaction to them.
 - (3) Requesting priority changes or assistance for DC parties from outside of the DC organisation, from the Command, through the MEO.
 - (4) Keeping MEO informed of incidents that require coordination between the DC organisation and any self-contained Damage Control Section.
 - (5) Liaising with the Propulsion Manager.
 - (6) Liaising with the DCO(L).
 - (7) Liaising with the CBRNPO's Assistant.
- k. Directing the work of the HQ1 Incident Board Operator, HQ1 panel operators and any HQ1 communication numbers or messengers.
 - (1) Ensuring all information coming into HQ1 is properly recorded, re-routed or acted upon.
 - (2) Ensuring any directives or priorities from the Command and the MEO, and any information generated within HQ1, is passed to all outstations within the DC organisation including HQ1 alarms.
 - (3) Ensuring that a narrative of events is kept in all Damage Control State 3 incidents.
- l. Make broadcast 'SITREPs' to the Ship's Company.

0218. Command Adviser

The responsibilities of the Command Adviser in the Action State are:

- a. To determine the Command's equipment repair priorities and ensure that the appropriate outstations are aware of them and work to them. In consultation with the PWO, they are to recommend changes to these priorities, depending on the tactical situation and the extent and nature of any damage suffered.
- b. To monitor the performance of weapons sensors, communications, data handling systems and all the supporting services taking into account operator, tactical and material factors. They are to assess the effects of damage, defects and degradation on the ship's ability to fight, establishing estimated time back on line (ETBOL) and alternative modes of operation where possible. Command Advisers are to keep the Command fully informed of all significant changes that may affect the operational ability of the ship.
- c. By consultation with the MEO and the XO, Command Advisers are to monitor the extent of damage to the hull, propulsion and ancillary systems and the effect on the ships ability to meet the Command Aim and to keep the Command informed of all significant changes that may affect the operational capability of the ship.
- d. To integrate the requirements of the Warfare and Engineering Departments for the testing, maintenance and repair of systems and equipment within the existing tactical scenario. They are to particularly assess the extent of damage following an attack (mini-SOCs and blanket search).
- e. To monitor the identity, number and location of casualties and to monitor the requirement to move personnel within the ship to deal with damage control, firefighting and weapon repair. They are to ensure that the Command Aim is being complied with and that the Command is fully informed of all significant personnel matters.
- f. To liaise with the XO on:
 - (1) Domestic matters such as Action snacks, Action messing, the opening of heads, etc.
 - (2) Explosive hazards.
 - (3) Material changes which affect the ships signature.
- g. Carry out the duties of Command CBRN Adviser as the CBRN threat dictates.

0219. Damage Control Officer (Electrical) (DCO(L))

The DCO(L) is an officer or senior rating, nominated by the MEO. They are stationed in HQ1/SCC when the ship is in Damage Control State 1, and their responsibilities are:

- a. Control of the main electrical distribution system and converted supplies, keeping the MEO informed of the current state, limitations and implications of damage repair actions.

- b. Compilation of the damage 'picture' of electrical losses gathered from feedback from 'L' DC teams and WSB reports.
- c. Advising the Propulsion Manager of any electrical problems affecting machinery.
- d. Advising the DCO of any electrical problems affecting the Damage Control efforts under their control (eg HPSW pumps, lighting losses etc).
- e. Close liaison with the WSB with regards to power supply problems affecting weapons and sensors, together with any mechanical problems highlighted by the PM, eg chilled water, LP air or hydraulics.
- f. Interrogation of the main incident board for incidents that may affect integrity of power supplies or restoration of power supplies.
- g. Investigation of electrical defects and instigation of emergency cable runs and electrical repairs in accordance with the Command Aim.

0220. The Propulsion Manager

The Propulsion Manager (PM) is an officer or senior rating nominated by the MEO. They are stationed in the SCC when Damage Control State 1 is ordered. Their responsibilities are:

- a. Supervision of the SCC watch and machinery space crews to ensure that every effort is made to maximise the power available to Command.
- b. Directing the actions of the Mobile Repair Party, primarily in support of the machinery space crews.
- c. Coordinating the reaction to damage to the propulsion plant in accordance with the priorities set by the MEO.
- d. Maintaining a close liaison with the DCO and DCO(L) to ensure that the implications of fires, damage and electrical losses on the propulsion plant are fully appreciated, and that incidents in the machinery spaces are recorded on the main incident board.
- e. Managing the reconfiguration and repair to key mechanical systems (chilled water, hydraulics, HP and LP air) throughout the ship.
- f. Informing the MEO of damage and limitations affecting the propulsion plant and key mechanical systems, and providing an ETBOL (see [Para 0824](#)) for all losses.

0221. CBRN Protection Officer

The CBRN Protection Officer (CBRNPO) is normally the DWEO, although in large ships another WE officer may be nominated by the Command. The duties of the CBRNPO are:

- a. Advising the Command, through the WEO, on all CBRN Defence matters, ie:

- (1) Assisting the PWO on the interpretation of CBRN related intelligence.
 - (2) Assisting the PWO (FF/DD and above)/Navigating Officer (MM/PP) with the preparation and interpretation of CBRN (ATP 45/BRACIS) reports.
 - (3) Advising the Command, through the WEO, on appropriate CBRN protection measures.
 - (4) Advising the Command, through the WEO, on monitoring and decontamination procedures.
 - (5) Advising the Command, through the WEO, on the CBRN risk-taking philosophy.
- b. Advising the WEO of all CBRN incidents, and recommending responses and reactions to them.
 - c. Directing the activities of the CBRN Monitoring and Decontamination Teams, ie:
 - (1) Supervising the CBRNPO's Assistant (CBRNPOA).
 - (2) Passing the Command Aim onto the CBRNPOA.
 - (3) Training and exercising the CBRN Monitoring and Decontamination Teams.
 - d. The production and amending of the CBRN Protection sections of the ships CBRNDC Orders.

0222. CBRN Protection Officer's Assistant

The CBRNPO's Assistant (CBRNPOA) is normally a WE senior rating who has attended the appropriate CBRN course. Their duties and responsibilities are:

- a. Supporting the CBRNPO in:
 - (1) Reporting CBRN incidents including alarms, detection, monitoring and decontamination results.
 - (2) Providing advice on all CBRN matters.
 - (3) Keeping CBRN records.
 - (4) Assisting in training the CBRN Monitoring and Decontamination Teams.
- b. Controlling the CBRN specialist teams, ie:
 - (1) The CBRN Monitoring Teams.
 - (2) The CBRN Decontamination Teams.
 - (3) The Cleansing Station Crews.

- (4) The Airlock Sentries.
- c. Advising the MEO and DCO on CBRN matters.
- d. Controlling the custody and maintenance of CBRN detection and monitoring equipment for which they are responsible.



Note. See the specific ships edition of BRd 2170 Volume 7 (CBRNDC Orders) for further details.

0223. CBRN Defence Watch Coordinator

During prolonged periods of operation under CBRN threat, particularly after fall-out or chemical agents have contaminated the ship, there is a need to establish a liaison link between the PWO and the cleansing station team. This is best achieved by employment in HQ1 of the CBRNPOA and/or another suitably briefed senior rating at all times when personnel on the upper deck are being watch changed and need to be check monitored and/or processed through the cleansing station(s) before re-entry into the citadel. It is most important that effective control of incoming RAS parties and off-going upper deck crews is achieved, to ensure a smooth throughput at the cleansing station(s), or check monitor air lock. A waste of man-hours and loss of morale can result from lengthy processing at the end of an evolution or a standard watch change. Following contamination on the upper deck, careful thought must be given to the rate at which personnel are relieved of their upper deck duties. A knowledge of CBRN monitoring and cleansing techniques will enhance the performance of the personnel fulfilling this defence watch CBRN coordination commitment.

0224. Meteorological Officer

The Meteorological Officer (or the officer performing these duties) is responsible for advising the Command on meteorological factors affecting CBRN protection, and on the suitability of weather conditions for the use by the enemy of biological and chemical weapons. After a nuclear, biological or chemical weapon release the Meteorological Officer, in conjunction with the Navigating Officer and the CBRNPO, is to assist in estimating the areas of sea and air contamination.

0225. Main Incident Board Operator (IBO)

The IBO is a key player and can do much to ease the burden on the DCO in the way they conduct business. The IBO is to be a suitably trained and experienced Junior Rate who can be relied upon to develop the incident picture without too many prompts from the DCO. IBOs assist the DCO by taking charge of the communications network with the vessels FRPP IBOs, following up information that is missing and bringing important information to the DCO. Their key tasks are as follows:

- a. Establishing and marking the scenes of incidents.
- b. Establishing and marking smoke/flood boundaries.
- c. Controlling the CBRN communications net and following up missing information.
- d. Drawing the DCO's attention to new incidents.

- e. Identifying hazards particularly around primary boundaries and drawing it to the attention of the DCO.

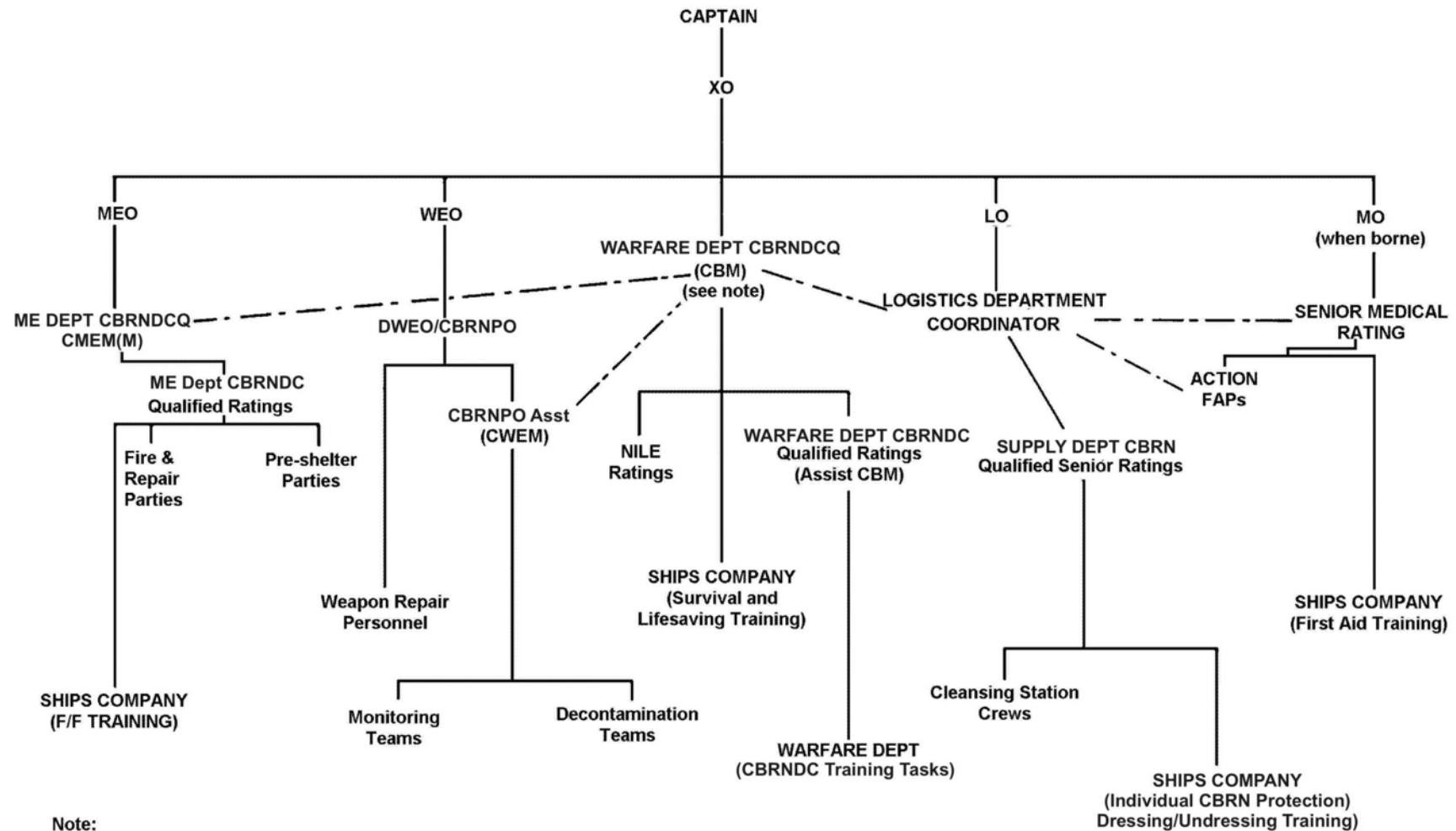
0226. CBRN and Damage Control Responsibilities in Minewarfare and Patrol Vessels (MM/PPs)

See [Para 3702](#).

0227. CBRN and Damage Control Training Organisation

The organisation for CBRN and Damage Control training in a ship is fully illustrated at [Fig 2-1](#).

Fig 2-1. CBRN and Damage Control Training Responsibilities



Note:

In those few ships where a specialist CBRNDC Officer is borne, the CBM is excluded from the CBRNDC Training Coordination role.