

## **MARITIME WARFARE CENTRE – INFORMATION WARFARE STAFF OFFICER NAVIGATION WARFARE (NAVWAR)**

### **TERMS OF REFERENCE**

#### **PREAMBLE**

1. You are assigned as the Information Warfare Staff Officer Navigation Warfare at the Maritime Warfare Centre (NAVY MWC-INFOWAR NAVWAR SO2).
2. NAVWAR SO2 is accountable to the Captain MWC (CMWC) for the delivery of operational knowledge exploitation (OKX), Tactical Development (TacDev) and Education with specific responsibility for the provision of specialist NAVWAR advice within the MWC and to its customers.
3. CMWC, in conjunction with the Chief Scientific Advisor, is responsible, via Navy Command's Assistant Chief of Staff (Warfare) (ACOS(W) 1\*), for enhancing and evolving the maritime contribution to operations in support of the Fleet Commander's objectives and operational priorities.
4. With delegated financial and line authority over the efficient operation of the MWC, CMWC is responsible for:
  - a. pre-empting and responding to immediate operational demands for tactical advice and guidance to support front-line commands;
  - b. developing maritime warfighting tactical and operational-level doctrine, including improved tactics, techniques and procedures (TTPs) through a process of OKX, TacDev trials, and scientifically-based operational analysis (OA), to meet objectives set out in the Warfare Development Plan (WDP);
  - c. provision of education in RN maritime warfighting tactics and in the planning and conduct of maritime and joint operations.
5. CMWC has close links with RN/RM HQs, Battlestuffs and training organisations and supports Assistant Chief of Naval Staff (Capability) (ACNS (Cap) 2\*) for capability development work. CMWC provides authoritative maritime warfighting input across RN, Joint, Allied and partner communities, particularly NATO and AUSCANNZLUKUSA (5 Eyes) TacDev and doctrine development fora.

#### **PURPOSE**

6. **Primary.** To enhance and evolve the maritime contribution to operations in support of the Fleet Commander's objectives, with particular responsibility for the delivery of specialist NAVWAR advice to the MWC and its customers. This involves leading the conduct and reporting of NAVWAR studies, trials and reports, either individually or as part of a team for NAVWAR<sup>1</sup>.

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<sup>1</sup> NAVWAR includes SME knowledge of Royal Naval navigation, which includes classic force disposition, manoeuvring techniques, tactics and procedures. NAVWAR also consists of the requirement to have SME knowledge of space-based Global Navigation Satellite Systems (GNSS) provision of PNT (positioning, navigation and timing) or PVT (positioning, velocity and timing) and in particular, in the conduct of operations, PNT situational awareness (PNT-SA), defensive PNT resilience (PNT-R), PNT attack capability (i.e. counter PNT or C-PNT) and Alt-Nav (alternative resilient PNT data sources, which are independent of space-based GNSS – i.e. terrestrial or platform based PNT data).

**7. Secondary.**

- a. Act as task leader and team member for those tasks assigned through MWC processes.
- b. Support the INFOWAR division through the provision of specialist NAVWAR advice, briefings and reports on Information Warfare and NAVWAR related specialist areas.
- c. As the MWC subject matter expert on NAVWAR related Information Warfare, provide deep specialist advice to other desk officers and analysts across the MWC to ensure the accuracy of their outputs which have a dependency or relationship with NAVWAR.
- d. Provide rapid reach-back support to the front-line regarding IW and related specialist areas.
- e. Act as Divisional Officer to INFOWAR Senior and Junior Ratings assigned to MWC when appropriate.

**ACCOUNTABILITY**

8. NAVWAR SO2 is directly accountable to INFOWAR SO1 who is their first reporting officer (1RO).

**AUTHORITY**

9. NAVWAR SO2 is authorised to:
- a. Sign correspondence and reports relevant to their purpose, referring any contentious issues to CMWC or CSA.
  - b. Represent MWC CMWC at meetings and briefings on NAVWAR or related matters.
  - c. Liaise and negotiate with all relevant outside authorities to fulfil his/her purpose.
  - d. Represent MWC at meetings, briefs, exercises, trials and Op support as required.

**ORGANISATION**

10. In accordance with the MWC master wiring diagram.

**TASKS**

11. In addition to the specific objectives agreed in his/her annual Performance Appraisal Report, the principal tasks of NAVWAR SO2 are to:
- a. Provide SME knowledge on NAVWAR and related IW matters.
  - b. To support Tactical Development and Operational Analysis within the NAVWAR area to ensure that operational capability is maximised.
  - c. To staff and develop extant doctrine in the PNT-R, C-PNT, PNT-SA, Alt-Nav and other specific NAVWAR areas, to ensure consistency / coherency with maritime, joint and allied publications in accordance with the priorities specified in the Warfare Development Plan.
  - d. Provide, through 'reachback', support and advice in the IW domain to operationally deployed units and HQs.

- e. Contribute to the planning, conduct and analysis of IW exercises and trials in support of tactical development.
- f. To inform the capability integration process by providing NAVWAR input through originating/staffing reports, participation in OA and attendance (or representation) at NAVWAR Capability Integration Working Groups (CWIGs) and other CWIGs, workshops and meetings as directed with a relationship or dependency on NAVWAR.
- g. Brief Senior Officers, courses and military subject matter experts on the findings of IW studies and trials.
- h. Manage and maintain the RN NAVWAR standards, requirements and specifications for RN platforms, systems and weapons.
- i. Manage and distribute as required, incoming NAVWAR products (such as the US Joint Navigation Warfare Centre's (JNWC's) monthly threat update) ensuring they are made available within MWC for TD and OA.
- j. Carry out the duties of MWC Duty Staff Officer.
- k. SME support to MWS WTG PWO Principle Warfare Officer training courses, when available and as required by INFOWAR SO1.
- l. Act as Divisional Officer to INFOWAR Senior and Junior Ratings assigned to MWC as necessary.

**QUALIFICATIONS AND COMPETENCES**

12. The post holder is to be a SO2 PWO N or PWO CEW with appropriate Staff Course training. In addition, the post holder requires the specific competencies:

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|--|------------------|
| a. Area Skill - Navigation (FNO qualified) | Essential        |
| b. Operational NAVWAR Experience           | Essential        |
| c. ICSC Course                             | Essential        |
| d. Maritime Battlestaff / MTG Experience   | Highly Desirable |

13. This is a Reserved Post and the post holder **should hold a DV clearance** to permit access to information protectively marked TOP SECRET caveat.

**POST HOLDER**

**LINE MANAGER**

Signature

Signature

Post: NAVWAR SO2

Post: INFOWAR SO1

Date: / /2019

Date: / /2019