

**AUSTRALIA AND THE UNITED STATES MULTI-LATERAL MASTER MILITARY
INFORMATION EXCHANGE MEMORANDUM OF UNDERSTANDING (M3IEM)**

INFORMATION EXCHANGE ANNEX

CONCERNING

SURFACE SHIP UNDERSEA WARFARE

O-AA-05-02

In accordance with the ABCANZ Multilateral Master Military Information Exchange Memorandum of Understanding (M3IEM) of 18 April 1997 and in furtherance and subject to the terms and conditions of the Exchange of Notes concerning Defence Commitments concluded between the Government of the United States and the Government of Australia on 1 December 1995, Australia and the United States hereby establish this Military Information Exchange Annex (MIEA).

1. DESCRIPTION:

- a. This MIEA between the Royal Australian Navy (RAN) and the United States Navy (USN) (hereinafter referred to as the "participants") provides for the exchange of operational and technical information related to surface ship undersea warfare. This MIEA is limited to exchange information consistent with the national laws and regulations of the participants.
- b. This MIEA acknowledges the ongoing requirement for the participants to have a degree of commonality in their tactics and procedures that will enable the easy integration of units of the Participants into combined forces. To fulfill this requirement, this MIEA allows for the exchange of surface ship undersea warfare information, including the cooperation in tactical development necessary to satisfy the requirement.
- c. The Scope of the MIEA comprises the following:
 - (1) The exchange of tactical development and evaluation information in the field of surface ship undersea warfare. Specifically this agreement includes platform specific and non-platform specific tactics addressing undersea warfare tactics used by single ships, formations of ships, and their embarked rotary wing aircraft and unmanned vehicles, to include use of organic weapons, sensors, tactical data systems and data links.
 - (2) Military materiel and munitions information, military intelligence information, and information relating to employment of armed forces and systems is included in this agreement in so far as this information relates to surface ship undersea warfare tactics and is consistent with national and military disclosure laws and policies.
 - (3) Information and data relating to the conduct, analysis, reconstruction and summaries of exercises and operations relating to surface ship undersea warfare.

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(4) Information and data relating to the conduct, analysis and summaries of modeling and research relating to surface ship undersea warfare tactics, intelligence and munitions.

d. **Production Information:** Production information will not be disclosed under this MIEA. Production information is defined as "designs, drawings, chemical and mathematical equations, specifications, models, manufacturing techniques, software source code and related information necessary to manufacture or substantially upgrade military material and munitions." This agreement will also not be utilized to exchange information for the purposes of acquisition of military material and munitions or applied research and development information and material.

2. **GENERAL:**

- a. The scope of this MIEA permits the exchange of Military Information on the basis that such exchanges will be on a balanced, reciprocal basis of approximately equal value among the MIEA Participants, quantitatively and qualitatively in accordance with Section II of the M3IEM.
- b. All information exchanges under this MIEA will conform to the provisions of the M3IEM, including the prohibition against exchange of weapon, sensor, or related computer system software, or documentation related thereto and exchange or provision of Production Information, and exchange or provision of defense equipment or services contained in Section II of the M3IEM.
- c. Each participant must bear the full costs it incurs in making, managing and administering any information exchanges under this MIEA. Furthermore, this MIEA provides no authority for transfer of funds or placement of contracts in accordance with Section V of the M3IEM.

3. **INFORMATION EXCHANGE AND SECURITY:**

- a. A participant (including its defense civilian personnel/contractor support personnel) may use the information received under this MIEA for information and evaluation purposes only. The specific prior written consent of the originating participant is required for any other use or disclosure including disclosure to contractors or Third Parties, in accordance with Section VI of the M3IEM.
- b. All information exchanges under this MIEA will conform with the security provisions of the M3IEM including Sections IV, VI, VII, and VIII of the M3IEM.
- c. The highest classification of information to be exchanged under this MIEA is SECRET REL AUS, USA. The existence of this agreement and its terms are unclassified.
- d. Current information exchange objectives are appended. Revisions may be established on an annual basis through the exchange of correspondence by the PO's to reflect current information considerations. Approved revisions shall also be appended to the agreement.

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4. PROJECT OFFICERS, ESTABLISHMENTS, AND LIAISON OFFICERS:

a. For the United States Navy:

Project Officer:

(a) Commander, Surface Warfare Development Group
2200 Amphibious Drive
Norfolk, VA 23521-2896 USA

Establishments:

(a) Commander, Surface Warfare Development Group
2200 Amphibious Drive
Norfolk, VA 23521-2896 USA

b. For the Royal Australian Navy:

Project Officer

(a) Commander, Royal Australian Navy Tactical Development Group
Building 89/90
HMAS KUTTABUL
SYDNEY NSW 2000 AUSTRALIA

Establishments:

(a) Commander, Royal Australian Navy Tactical Development Group
Building 89/90
HMAS KUTTABUL
SYDNEY NSW 2000 AUSTRALIA

(b) Commandant Australian Defence Force Warfare Centre (ADFWC)
RAAF Base Williamtown
WILLIAMTOWN NSW 2314 AUSTRALIA

Authorities:

(a) Maritime Commander Australia
Maritime Headquarters Australia
120A Wylde St
POTTS POINT, NSW 2011 AUSTRALIA

(b) Vice Chief of the Defence Force (Strategic Operations and Capability Systems)
Headquarters, Australian Defence Force
Russell Offices
CANBERRA, ACT 2600 AUSTRALIA

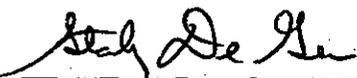
(c) Deputy Chief of Navy
Department of Defence (Navy Headquarters)
Russell Offices
CANBERRA, ACT 2600 AUSTRALIA

5. TERMINATION AND DURATION OF THIS MIEA:

- a. This MIEA may be amended at any time by the mutual written consent of the Participants. This MIEA may be terminated at any time by the written consent of the respective Participants, who will consult at the appropriate level prior to the date of termination to ensure termination on the most equitable terms. In the event an Authority desires to withdraw from this MIEA, it may withdraw upon 60 days written notification to the authorities of the other respective Participants. Termination of or withdrawal from this MIEA will be subject to the provisions of Section X of the M3IEM.
- b. This MIEA will remain in effect for a period of five years from the date of the last signature unless amended or extended by mutual written consent. Before the expiration of this MIEA, the authorities of the respective Participants will review the MIEA and may, by mutual written consent, extend the MIEA for additional periods of up to five years each.

6. SIGNATORIES:

For the United States Navy



S.V. DeGEUS

CAPT, USN

Commander, Surface Warfare Development Group

On behalf of Deputy Chief of Naval Operations (Warfare Requirements and Programs)

4 OCT 05

Date

For the Royal Australian Navy



G. D. CHRISTIAN, AM

CDRE, RAN

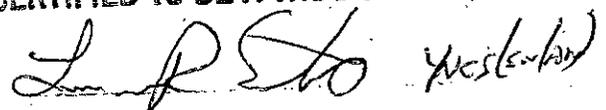
NAVAL ATTACHE

On behalf of Deputy Chief of Navy

4 OCT 05

Date

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**THE UNITED STATES NAVY INFORMATION EXCHANGE OBJECTIVES FOR THE
INFORMATION EXCHANGE ANNEX**

1. The U.S. Navy desires to obtain information on the following topics under this annex:
 - 05-1 Information regarding the capabilities, limitations and employment of Australian USW capable surface, submarine, mine warfare and air units. The objective focuses on the capabilities, limitations and employment of Australian USW capable units to enable USN warfare staff to effectively integrate and task units during combined operations.
 - 05-2 Tactics regarding the use of the environment. The objective focuses on tactical employment guidelines to determine the most efficient means of exploiting the tactical environment in USW operations.
 - 05-3 Information regarding USW mission planning and search area planning. The objective focuses on the development and utilization of tactical Measures of Effectiveness (MOE's) and Measures of Performance (MOP's).
 - 05-4 Information regarding ASW tactics against diesel and nuclear submarines in and around Asia, the Middle East and the South Pacific.
 - 05-5 Information regarding underway noise evaluation using sonobuoys. The objective focuses on information related to Underwater Noise Evolutions (UNEUS) for submarines and new procedures for Guided Missile Frigates (FFG's).
 - 05-6 Information and tactics regarding torpedo countermeasures (TCM) on ship torpedo defense. The objective focuses individual ship TCM and on the force response that protects a Mission Essential Unit (MEU) against a second attack.
 - 05-7 Tactics and information in the use of Unmanned aerial vehicles (UAV's), Unmanned Surface vehicles (USV's) and Unmanned Underwater Vehicles (UUV's) in USW surveillance, detection and attack.

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THE ROYAL AUSTRALIAN NAVY INFORMATION EXCHANGE OBJECTIVES FOR THE
INFORMATION EXCHANGE ANNEX

1. The Royal Australian Navy desires to obtain information on the following topics under this annex:
 - 05-1 Information regarding the capabilities, limitations and employment of USN USW capable surface, submarine, mine warfare and air units to allow Australian warfare staff to effectively integrate and task units during combined operations.
 - 05-2 Information regarding formulating an Anti Ship Torpedo Defence (ASTD) policy that covers all torpedo threats.
 - 05-3 Tactics regarding torpedo countermeasures (TCM) for individual ship defence, including Mission Essential Units (MEU), as well as multiple unit co-ordinated defence measures, against all torpedo variants.
 - 05-4 Tactics and information regarding employment of expendable, recoverable or towed torpedo detection equipment and countermeasures.
 - 05-5 Tactics and information regarding theatre ASW and network enabled undersea warfare.
 - 05-6 Tactics and information regarding littoral and static ASW.
 - 05-7 Information regarding ASW tactical assessment and ASW baseline metrics.
 - 05-8 Tactics employing Low Frequency Active/Passive Sonars and/or multi/bi-static sonobuoy operations in USW/SUW surveillance for both submarine and surface ship detection and localisation. The objective focuses on optimising asset employment in wide area USW search planning.
 - 05-9 Tactics employing operational deception (OPDEC) measures by surface ships to defeat submarine TMA. The objective focuses in avoiding surface ship and submarine interaction.
 - 05-10 Information on FFG-07 wake data for use in torpedo wake homing modeling.
 - 05-11 Information on Screen planning models that can be used in USW and multi-threat situations. The objective is to incorporate planning models into a command decision aid.
 - 05-12 Information on the operation and application of ROE in the USW environment. The objective focuses on applying ROE in the USW environment.
 - 05-13 Tactics regarding the use of the environment in USW operations. The objective focuses on utilising environmental data to optimise detection, screening, OPDEC and other USW tasks.
 - 05-14 Tactics and information in the use of Unmanned aerial vehicles (UAV's), Unmanned Surface vehicles (USV's) and Unmanned Underwater Vehicles (UUV's) in USW.

surveillance, detection and attack.

7
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**THE ROYAL AUSTRALIAN NAVY / UNITED STATES NAVY JOINT INFORMATION
EXCHANGE OBJECTIVES FOR THE INFORMATION EXCHANGE ANNEX -
MINE WARFARE**

1. The U.S. Navy and the RAN desire to exchange data and information on the following:
 - 05-1 Tactics regarding the use of the Mine hunting systems including forward looking and side scan sonars, unmanned underwater vehicles and organic systems. To include detection and classification of buried mines, navigation systems and tactical displays, neutralisation and disposal systems, command tactical systems, sonar propagation models, sonar equipment, models, human factors, automatic detection and classification technologies and decision aids.
 - 05-2 Mine Disposal / Neutralisation tactics including shaped charge disposal and one-shot systems.
 - 05-3 Tactics regarding the use of Minesweeping including mechanical and influence sweep systems, sweep calculation tools, and sweep effectiveness measurements and remote sweep capabilities.
 - 05-4 Tactics involving the use of Explosive Ordnance Divers in the Shallow and Very Shallow zones.
 - 05-5 Very Shallow Water MCM and Surf Zone Breaching.
 - 05-6 Tactical employment of developmental mines and mine simulation systems, including
 - a. Developmental mines sub systems;
 - b. Mine technology including:
 - i. Systems concept studies and analyses;
 - ii. Analytical modeling and simulation (including application of modeling for algorithm development);
 - iii. Sensors;
 - iv. Target detection devices;
 - v. Anchor and mooring systems;
 - vi. Recovery systems;
 - vii. Safety and arming devices;
 - viii. Cases;
 - ix. Explosive content;
 - x. Fire retardant coatings;
 - xi. Sonar absorbent coatings;
 - xii. Remote control systems, and
 - xiii. Warheads.
 - c. Minefield planning and measures of effectiveness; and
 - d. Minefield modeling and development.
 - 05-7 Information regarding Mine Warfare Mission planning including: Risk Directives, planning tools and decision aids, threat analysis, planning and evaluation tools, measures

of effectiveness.

- 05-8 Information regarding Route Survey. Including: equipment, data management, data collection and data analysis.
- 05-9 Information regarding magnetic and acoustic silencing: including ship-silencing systems, jamming systems, measurement facilities and magnetic treatment facilities and ranges.
- 05-10 Information regarding MCM simulation systems.
- 05-11 Information regarding Mine Warfare Test and Evaluation.
- 05-12 Joint undertaking of Mine Warfare tactical development including;
 - a. Laboratory and test facilities and in water ranges;
 - b. Test and evaluation procedures and techniques;
 - c. Cooperation in development, analysis and technical assessment of systems, equipment and tactics; and
 - d. Joint exercise analysis.

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