### AWM78

## Reports of Proceedings, HMA Ships and Establishments

AWM78 Class 446 - [RAN Trials and Assessing Unit] RANTAU, Edgecliff

File number: AWM78/446/1

Title: AWM78 446/1 - January 1970 -December 1973

December 1973



RCDIG1074373

[446/1]

RAN TRIALS AND ASSESSING UNIT.

R of Ps. 1970-1913 [446/1]\$

AUSTRALIAN WAR MEMORIAI.

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(35) 28 /3 /74

- This copy is circulated so that Board Members may see these reports soon after they reach Navy Office.
  - The report will be given again to Board Members with
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ROYAL AUSTRALIAN NAVY

RAN Trials and Assessing Un The Edgecliff Centre 203-233 New South Head Read

30 JAN 1974

30 JAN 1974

The Secretary

D 387.3

For Information:

The Flag Officer Commanding, EAST AUSTRALIA AREA

RANTAU - REPORT OF ACTIVITIES FOR THE HALF YEAR ENDED BLEE DECISION 197

Reference: 100 497/70 para. 5.

The six monthly report of functional activities is forwarded in accordance with the reference.

2. Administrative matters have been reported separately to the Flag Officer Commanding, East Australia Area.



(R.G. LOOSLI)

CAPTAIN RAN

OFFICHR-IN-CHARGE



- A. Weapons Assessing Unit Report B. Surface Weapons Trials Report
- C. TAS Trials Report D. Power Trials Report
- F. Marine Engineering and Miscellaneou Trials Report

# POR THE SIX NOWTES ENDING 31ST DECEMBER 1973

 The major items, including problem areas, covering the Weapons Assessin Unit of RANTAU, are reported below:

#### Degaussing Ranges, Svine

2. In the period reviewed a considerable amount of repair an

- a. Deep D.G. Espec (Capital Shipe) has been taken out of service because of underwater equipment faults, GNBID are in the
- b. Shallow North-South D.G. Range is fully serviceable.
- c. M.C.M. Undersay Renous are in the process of repair. This has been delayed by the receipt of faulty cable. Follow-up action on redelivery of serviceshle cable is being progresse by GMCID. Probably earliest date of completion of repair is Name 1974.
- d. <u>Boll and Stray Field Rances</u> have been surveyed and underwater fittings brought up for maintenance. Scenanship trials were carried out and the problems arising from these are being remedied. Probable date of completion of these ranges is well 1026.
- 6. <u>Compressor</u> for Boll and Stray Field Ranges will be estuated in the oursest sacspacy generator building in the main shore complex. This has been included in the 1973/74 Codin programs as a Supplementary Item. As an interim measure it will be nounted on a flat top lighter, trials will be conducted early 197
- f. Main Building Alterations have been completed. These
- g. Pire Alarn System has been installed throughout the range complex
- b. <u>Beautification of Harbour Foreshores</u>, COMPURIS have in hand the requirements of the State to restore the area to 'natural' state and planting is to commence this apring.
- Installation of East-West, and Modifications to North-South Shallow Respons are underway and are enticipated to be completed in 1974.
- Removal of Southern Most Dolphin Rose Bay will be undertaken as part of the contract for modification of the North-South range.
  - k. ESR 19/71 The engineering specification for the updated 3 axis degamating ranges for NSE 19/71 has been completed and forwarded to Hary Office.

#### Sound Range Jervis Bay

- Leaser Replacement for land marks. Initial trials of a newigational laner system were conducted in April 1975.
   It was found that the system trialled had once abortcosings which could be overcome by redesign. Inother trial is represented for Pahrary 1975, using the redesigned system.
- b. Grerall inspection of Seasard Equipment and Cable. The sound runge seasard equipments are oversize for routine periodical impection, this is planned for early 1974. Haintenance has been carried out on the spare hydrophone care and another block.
- Draft NSE for Sound Range replacement and Systems Alignment facilities Jorvis Eav.
   Two final draft NSE's have been completed for these facilities

#### Ordering action for the ALMANI computer in now complete and delivery is expected in Seweral adapse, the first of which will comprise the central provision and centraling eletype. However the Department properties the computer rows. It appears investable that a failume dela of seweral menta will occur between initial delivery of equipment and created to the computer rows.

# 5. Annual Summary of Manpon Fractices This report which covers the period let July 1972 to 30th June 1973 consists of five volumes, four of which have been issued. The rensining rolume on the Ikara Waspon System has been appreciably delayed owing to staff shortages and additional countiments on this staff;

#### Pelemetry Station Jervin Bay Mineile Rango.

- a. <u>Rectrical Fower Supplies</u>. A revised proposal for unjor alterations to the existing power supply system at JERR has been received from the Department of Housing and Construction. This proposal which involves nominal modification to the RAW
- b. <u>Fire and Security Alarm Systems</u>. The RNTAU proposals, outlined in the last six monthly report, have not been coupleted though it is understood initial investigation of total requirements has commenced.

#### c. August Activation VAN staff operated the RAN telemetry station during the August DRN activation, and received and recorded telemetry data from Surface to Air Tartar Minings and Air to Air Sidewinder Pirings to enable Hight analysis.

4. WMF Conversion Subsequent to the visit to Australia of a WMF telemetry team in 1972 an initial proposal, for the convension of the RMF telemetr attain from VMF to UMF capability, has been received from the UGF, RMFUM has recommended certain deletions to the proposed system to weak LMF requirements and in at present engaged in

7. SIPAC TO Branciasa
VAN staff were responsible for instrumentation and records during
the Weapons Fractice phase at REPAC 73. Since the completion of this task
the group has been involved in the assessment of this exercise and anticipate
feases of the anti-current energy telly in 1975.

#### SURPACE WEAFONS TRIALS ACTIVITIES

During the period from 1st July, 1973 to the 31st December, 1973
 the Surface Manness Priod & Pass revised out the following:

#### a PARROT POARS

- 16 July 1973 EMAS IBIS Cun Punctioning Tri
  - 30 July 1973 HEAS IBIS G.F.T. repeat
- 16 July 19 July 1973 EMAS BAYOMET Ho
- 20 July 1975 HMAS BATONET Sea Acceptance and Gun F.
  - Aug 1973 MAS MADANG Harbour Acceptance Tri
  - Aug 1973 HUAS MADING Sea Acceptance Trials
  - 22 Aug 1973 HMLS MIDANG Sea Acceptance Trials
  - 13 Sept 1973 HMS BUCCANEER Earbour Acceptance
  - 14 Sept 1973 HMAS BUCCAMERR Sea Acceptance Tri
  - 17 Sept 1973 HMAS AITAPS Barbour Acceptance Tri
  - 21 Sept 1973 BMS ATTAFS Sea Acceptance Trials
- 19 Nov 1973 HMAS ATTACK Harbour Acceptance Trials 21 Nov 1973 HMAS BANDOLIER/RI SIBARAU - Sen Acceptance Tri

#### b. Landing Craft (Essay)

c. BMAS NEW HOUSE 9-13 July 1973 - 40/60 Nounting Harbour Acceptance Trials 1971 - 1973 - 40/60 Nounting San Acceptance Trials

# . EMAS SWAN

- d. BMAS SWAE 17 Sept-14 Oct 1973 - M22 and M44 Harbour Acceptance Trial 12 Oct 1973 - See Presidents Trial
  - 24-29 Oct 1973 Sen Acceptance Trial
  - 16 Oct 1973 Seacat Eqist Hiffs 25 Oct 1973 - Seacat Eqist Hiffs
- c. JEEE 13-15 Aug BMAS FEETE - Tartar Firing S.M.T. in ottendanc

#### f. MESSINGS S.W.T. attended or held the following meeting

5 July - TURANA Development Meeting held in Canberra 30-31 July 1973 - TURANA meeting held in Canberra 27-28 August - TURANA meeting held in Cemberra 26 Sept 1973 - Neeting BANYAN - Results of C.C.T.V. Twis

2 Nov 1975 - N22 Tilt and Alignment meeting held at RANTA

- g. CCTY.
  25-24 July 1973 S.W.P.P. conducted a feasibility trial at

  West Head.
  6-12 Sept 1973 S.W.T.T. conducted a Shipboard CCTV feasibility

  trial in VUCTER
- h. MUGS HATS and SiTs 25-26 July 1973 - Provinc of Hits and SiTs schedul.
  - . .5 BROWNING MACHINE CUN COURSE
- SWP personnel attended the course at West Hea
- k. RCST OPEVAL 20-21 August 1973 26 Sept = 12 New 1973 Conducted by S.W.T. at Jervis Eq
  - Experimental Craticals for Bore Telescope
     27-30 Aug 1973 S.W.T. conducted evaluation of experimental
  - . BMS VEDETTA Offset Bonbardnent and Vibration Trials
- m. 3-4 Dec 1975 Sleeve Target Trials at West Head.
- o. 10 Dec 1973 Semi Automatic Pune Paralyser.
- p. DAC Courses. Were conducted by S.W.T.T. 19-23 Nov 1973 for HMAS WAMPIRE

### 2. Reports

The following reports and schedules were produced by the Surface Weapons Trials Team:-

- s. Remyts on all the inspections and twints lieted
- h. Passibility Study on CCTV
- c. Visit report of RANTAN rang for West Road on C.C.T.N
- d. HMAS HOBART Tartar and Gun Sot schedules
- a. Proposed amendments to ABR.1043.
- f. TT 397 GPCS 68 HATE and 1
- g. HATs schedule proposal for 5/54 NK 42 NOD 10
- h. Analysis of NGS and Weapon practices.
- i. W22 alignment test and installation of benchmarks
  - j. MGS Operational Analysis
- k. RAN Weapon Practice Philosophy.
- 1. Proposed schedule for Semi-Automatic Pune Paralyser.

- (3) Sea Acceptance Trials were carried out on Sonars 177M,

- HEAS VEHDETTA

## HMAS WATSON

- 4. BUS TORRES

#### UMAD DETUDAN

- h. HOS ERISEANS
  - (2) Drave Range and Bearing attemment
    - (3) Ikara SAT 2.

#### . HUAS HOBART

- (1) There Soft. (Phase 1 only)
- During this period TAS Trials co-ordinated and pa in the following:
  - (1) NV 44 Torpedo Air Drop Trials in
  - (2) NV 44 Townsda Strongery Twick
  - (2) NK 44 Torredo Steersway Trial
- k. In addition personnel from TAS Trials provided technics
  - a. HAS SMAN Mortar NK 10 AM.
  - b. HMAS VENDETTA Mortar ME 10 AN.
  - TAS Trials personnel underwent the following courses during this period:
    - ) Lt A. Venceck Ikara Systems Course MRE
    - (3) POETS K. Medson Ikara Attack Console Course WRE

#### WEAPONS ELECTRICAL POWER TRIALS ACTIVITY

#### During the period 1 July to 31 December 1973 the Electrical Power Trials Team carried out the following activities:-

- a. HMAS MELBOURNE. An Installation Inspection of Internal Communications was carried out in June.
- b. A Harbour Acceptance Trial of the Arma Brown Compans was carried out in D.T. PORPOISE in June, followed by representation during Magnetic Conpass Swing.
- An inspection of the Marine Demonstration Building (Engineerin in BDAS Cerberus was carried out in July.
- d. Further power trials of the Mulloka Sonar Set were carried o in BMAS DERWERT in July.
  - . A Darken Ship Trial was conducted in D.T. PORPOISE in June.
  - A Harbour Acceptance Trial of the Echo Sounder in D.T. PORPOIS was carried out in August.
  - . The Power Trials Officer represented RANTAU at RADHAZ Trials

HMAS SWAN in August

- i. One Fower Trial Sailor was on loan to Weapons Assessing Unit
- A Harbour Acceptance Trial of the MK 19 and NK 23 Companses was conducted in HMAS SWAM in September followed by a Sea Acceptance Twial
- k. A Harbour Acceptance Trial and Sea Acceptance Trial were conducted in HMAS SWAN on Type 771 Echo Sounder during September.
- 1. Generator Faralleling Trials were conducted in BLAS FLINDERS in
  - . A Pre-refit Trial was carried out on HMAS SUPPLY's Concrators in November.

#### RADIO/RADAR TRIALS ACTIVITIE

The following Trials were carried out between the lat July and 3lat December 1973:

> Installation Inspections and/or Acceptance Trials were carried out on radio and radar equipment fitted in the following ships and establishments:

EMAS CERBURUS HIMAS FLINDERS
EMAS LONDOLLE HIMAS SALAMANIA
EMAS ALBATROSS HIMAS EURA
EMAS ENCOUNTER HIMAS EMPACATIVE
EMAS EMPACHELL HIMAS EMPACATIVE
EMAS EMPACHILL

HALS KUTTABUL HEAS BANDGLIER (RE HALS WATSON HEAS SWAN HEAS PARRAHATTA HEAS SUPPLY

HIAS VEIDHTA HUAS HELDOURIE

(2) An evaluation trial was carried out on SARBE 5 Beacon.

 Commen Security Inspections were carried out in the following ships and establishments.

EDLAS MELBOURDE HAAS VANSON EDLAS SMAD HEAS HOUDT EMAS SALANAUA HHAS LONSOALE EMAS EUVA HEAS CHEBERTUS

WILLIAMSTOWN HAVAL DOCKYARD HS

# 30 JAN 1974

Landing Craft Reavy

33ft Float Utility Boat The Sessanship Triels Officer carried out user acceptance

26ft Harbour Personnel Boat

a. Survival Ration Trials

18/6/3956

### RESTRICTED

Report of Proceedings 5 4 R Ended 31/12/12 HAR RANTAU 43(189/13)~

- A. This copy is circulated so that Board Members may see these reports soon after they reach Havy Office.
  - B. The report will be given again to Board Members with Director's comments if there is any matter of special

10 0/2/13





#### RAN Trials and Assessing Unit The Edgeoliff Centre 203-233 New South Head Road EDGEOLIFF NSN 2027

7 FFR 1973

NAVY—CANBERRA

The Secretary DEPARTMENT OF THE NAVY

For Information:

The Plag Officer Commanding, East Australia Area

RANTAU - REPORT OF ACTIVITIES FOR THE HALF YEAR ENDED 31 DECEMBER 1972

Reference: ANO 497/70 para. 5.

The six monthly report of functional activities is forwarded in accordance with the reference.

 Administrative matters have been reported separately to the Flag Officer Commanding. East Australia Area.

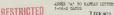
(J.D. COBLE)
CAPPAIN RAN
OFFICER-IN-CHARGE

OFFICER-IN-C RAFFAU

INEXES: A. Wempons Assessing Unit Report
B. Wempons Electrical Trials Report

B. Weapons Electrical Tria C. Gunnery Trials Report

D. T.A.S. Trials Report E. Marine Engineering Trials Report,



7 FFR 1973

WEAPONS ASSESSING UNIT REPORT

The six monthly review of activities of the Weapons Assessment Unit of RANTAU is as follows:

#### Annual Sunmary of Weapons Practices

This report which covers the period from 1st January 1971 to 30th June 1972 was issued on 8th November. The report was issued as four separate volumes on this occasion to overcome the difficulties of size and different security

#### Surface Weapon Analysis Section

- a. Jervis Bay Missile Range: WAU staff operated the Tartar Telemetry Station during an activation (July), and received and recorded telemetry data from four surface to air Tartar firings to enable flight analysis. b. Tartar Analysis: The RAN Tartar Analyst undertook a short term visit
  - to the USN Fleet Missile Systems Analysis and Evaluation Group in California, between 2nd October and 3rd November. This visit enabled a review of Tartar firing performance, an update in evaluation techniques and an introduction to the analysis of Standard Missile (MR).
    - c. Seacat Analysis: Only nine Seacat exercise missiles were expended in the period 1 July to 31 December. These firings have been evaluated and the respective analysis reports desnatched.
- d. Gunnery Analysis: Since moving to new accommodation the Gunnery Analysis Group has experienced some difficulty with logistics, resulting in delays in processing records.

#### Underwater Weapon Analysis Section.

- a. IKARA Group: This group was responsible for instrumentation and records during the Weapons practice phase at RIMPAC 72. Since the completion of this task the group has been involved in the assessment of this exercise and anticipate issue of a report early in 1973.
- b. Radiated Noise Group: The Sound Range at Jervis Bay is out of commission due to adefective underwater cable and a faulty high frequency hydrophone system. A minor update to remove inherent limitations of the hydrophone system will form part of the repair programs and will result in increase reliability and accuracy.

#### RESTRICTED

# DESTRICTED

- c. Decumering Group: The Smallow Sorth-South depending range is now operational, however all otherwages are not. The deep range is in the process of final testing prior to acceptance, the immesseeper ranges are undefed due to leeky underwater units, and the Soll and Stray field range is finally approaching initial acceptance and commissioning stare.
  - d. Jervis Bay facilities: A report on the future requirements for NGS, degaussing, sound ranging and alignment facilities in Jervis Bay has been completed in this period.

#### Acquisition of Major Equipment

5. The provision of an in house computer facility for RANTAU still remains outstanding.

A proposal to duplicate the RANTAU film reading system was forwarded in August of this period. This item is urpently required to meet the rapidly increasing demand in gummery analysis, and the marked increase in film records from other waspen weakustions.

#### RESTRICTED

RESTRICTED 1-16-2 DATED
MALPONS RESTRICTED TRIALS REPORT

#### Power Trials

1. Generator trials were conducted in the following ships at the times indicated:

VAMPIRE JUME
MORESBY AUGUST
ANZAC OCTOBER - DECEMBER
BRUNEI NOVEMBER

BRUNEI NOVEMBER
VENDETTA DECEMBER

 Inspections and trials of Navigational Aids were conducted in HMA Ships YARRA, FLINDERS, VENDETTA, ANZAC and T.D. SEAL.

3. Inspections of Internal Communications Equipment were carried out in HMA Ships VENDETF1 and FLINDERS.

 In EMAS VENDETTA, the installation of galley equipment, laundry equipment and of hull and fire pumps was inspected.
 The installation of converted supplies in the WEAPONS NIMEOFRICAL NUMBERS.

DEMONSTRATION BUILDING was inspected at HMAS CERSERUS.

6. Among the small craft to undergo inspections and trials were a Small

Harbour Tug, a Motor Crans Stores Lighter and a Hadio Controlled Surface Target.

7. Trials were conducted in HMAS STGART to observe the generator loading effects and interference with ship extense exercted from the re-medianced Some

# 177M (MULLOKA) Radio and Radar Trials.

B. Comparity Security Laguetisms were conducted in UMA Ships ANZAC, COCHAMARRA, FALUMA, CHRIS, FULLY, STUREY, MANUFALE, FALUMA, CHRISTER, FALUMENS, SMAN, VENDEVIA, YARRA, MELDHEZER, COCKRIS, KITHEA, 1885, and SHIPE and SHIPE AND KOMEQUARTORS and Williamston Mayal Rockets, 2008.

 Radio inspections and trials were conducted in HMA Ships FLINDERS, VENDEYTA, TARRA, MORETON, RELLIEFARAN and ERUNEI, in SHF504 and RADIO CONTROLLED TARGET O2 and at MAYY OFFICE, MELBOURDE.

10. Radar inspections and trials were conducted in HMA Ships ANZAC, VENDSTRA, YARRA, SMAN and CERRERUS (WEAPONS RISCURICAL ENGINEERING DEMONSTRATION BUILDING).



ANNEX C TO RANTAU LETTER

#### GUNNERY TRIALS TRAM

During the period from 1st July, 1972 to the 31st December, 1972, the Cumnery Trials Team carried out the followings

#### a. PATROL BOATS

7	AUG	72	EMAS	LAE	Harbour Acceptance Trials	
9	AUG	72	HMAS	BURBETTE	Harbour Acceptance Trials	
9	AUG	72	EMAS	LUE	Sea Acceptance Trials	
15	AUG	72	EMAS	BARRETTE	Sea Acceptance Trials	
5	SEP	72	HMAS	ASSAIL	Harbour Acceptance Trials	
6	SEP	72	EMLS	ASSAIL	Harbour Acceptance Trials	
19	SEP	72	EMAS	ASSAIL	Harbour Acceptance Trials	

Harbour Acceptance Trials 20 SEP 72 HMAS ASSAIL Harbour Acceptance Trials 24 OCT 72 EMAS LADAVA Son Acceptance Trials HMAS AUROTY

28 NOV 72 Harbour Acceptance Trials 21 DEC 72 HMAS BANDOLIER Sea Acceptance Trials

# b. HMAS PERTE

Assisted Ship's Staff to set to work and operate the Terter Telemetric Data Receiving, Recording and Scoring Set-AM/SEQ-1 during annual Training Tartar firings.

#### c. HMAS SWAN

During July and August, in conjunction with Turana Sea Trials, assisted ship's staff with the installation, maintenance and operation of the Mussle Velocity Indicator Mk.2.

#### d. HMAS SYDNEY

Carried out Harbour Acceptance Trials on the 40/60 Mk 7 Bofors suns on the 2nd and 3rd October, 1972.

Carried out trials and inspections in conjunction with Williamstown Naval Dockyard on the Seacat Endless Chain Hoist during period 16-18th August 1972.

#### f. HMAS VAMPIRE

Carried out Blast Trials in Bass Strait, 18th July, 1972.



# RESTRICTED g. HMAS VENDETTA

At Williamstown Naval Dockyard, carried out the following trials and inspections:

17-21 JUL 72 - Advanced Installation Inspection. Item 8.

14 NOV 72 - Inspection of Gunnery Compartments and Centralised Recording, A. B and K Gun Houses and Gun Bays.

15 NOV 72 - Inspection of B turret safety firing arcs.

16 NOV 72 - Inspection of A and X turnet G1 and G2 safety firing

17 NOV 72 - Inspection of M3 and M4 Safety firing arcs.

#### h. HMAS YARRA

Carried out Harbour Acceptance Trials during the period 3rd to the 24th of October 1972. On the 24-25th October, 1972 conducted trials of the Gun Recovery Throwoff Simulator, and finally carried out See Acceptance Trials during the period 21st - 23rd November, 1972.

#### J. HMAS ANZAC

Carried out Harbour Acceptance Trials on two 40/50 Mk 7 Bofors guns on the 1st December 1972.

#### k. REDEYE

In conjunction with Army Headquarters and the School of Artillery (ARMY) carried out the first Annual firings of the REDETE surface-to-air missile at Beccroft MGS Range using PTA and Delmar targets. The Gunnery Trials Team were represented at all of the following:

22 SEP 72 REDEYE Trials Planning Conference

10 007 72 REDEVE DELMAR Target Connetibility Trial.

REDEVE Trials Briefing Presentation - MAS NOWRA

21-23 NOV 72 REDEVE Simulator Training and live Firings.

### 1. 3" ROCKET LAUNCHING SYSTEM MK ANTY

Carried out installation and firing acceptance trials on this system at West Head Gunnery Range on the 1st and 16th November 1972

#### m. SPECIAL PRACTICE BOMBARDMENT ROUND

Attended trials sponsored by the Defence Standards Laboratories at Beecroft NGS Range on the following dates:

RESTRICTED

17 AUG 72

7 SEP 72 8 SEP 72

18-20 SEP 72

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### RESTRICTED n. DELMAR HIT RECORDER

Represented by LCDR QUINN on the 20th July, 1972 at Jorvis Bay Missile Range during the first phase of the trial. Carried out final acceptance of system during live firings on the 2nd of November.

#### O. RADIO CONTROLLED SURPACE TARGETS

Carried out sea trials on the Firefish R.C.S.T. on the 25-26th September, 1972 at Jervis Bay.

#### p. PROTOTYPE REPLACEMENT (R.C.S.T.) NSR 20/66

Attended meetings and trials at Brisbane as follows:

17th NOV 72 Dept. of Supply neeting.

27-28th NOV 72 Trials Planning Meeting, Dept. of Supply, Brisbane

18th DEC 72 Harbour Acceptance Trials 19-20th DEC 72 Sea Acceptance Trials

Both carried out in Moreton Bay.

### TURAMA. RADIO CONTROLLED TARGET DRONE NSW 38/66

The Gunnery Trial Team were represented in all the following events:

18-19th JUL 72 Planning Meetings at Navy Office and CAF. Turana Sea Trials at Jervis Bay Missile Range and 2-23rd AUG 72

in HMAS SWAN.

9th 007 72 Progress neeting at Navy Office

25-26th OCT 72 Turana Light weight launcher trials at GAF AVALON. HMAS BOISBANE

1-2 nd NOV 72 Planning meeting for Turana Low level Trials in 5-6 th DEC 72

The following reports and schedules have been produced by the Cunnery

- a. Reports on all the above trials and inspections.
- b. Turane OPORDER 3/72 and OFEVAL Report.
- c. AN/SKQ1 Tartar Telemetry Operator/Maintainers Course.
- d. AN/SKC1 Tartar Telegetric Data Receiving, Recording and Scoring Set AN/SKQ-1. Pro Firing Calibration and Alignment Procedure.
- o. MRS 3. Sea Acceptance Trials Schedule.

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# 4. GUNNERY ANALYSIS RESTRICTED

as from the lat July 1972 the Gunnery Trials Team nasumed the responsibility for the conduct of Surface and Mayard Lemfire Support Amalyase of firings carried out by RAN Ships and the production of the final reports. These have been summarised below.

#### SUMMARY OF ANALYSES COMPOUTED BY THE G.T.T.

Total Ships	Total Firings Reported		Submitted For Analysis		Awaiting Receipt of Records		Analysis In Hand		Analysis Report Forwarded Completed	
FIRING	NGS	S.U.	NGS	s.v.	nos	S.U.	NGS	S.U.	NGS	s.v.
8	17	18	10	7	2	2	2	1	8	5



ANNEX D TO RANTAU LETTER 1-16-2 DATED

#### TAS TRIALS REPORT

 During the period 1st July 1972 to 31st December 1972 the following activities were carried out by the TLS Trials Team.

#### 8. HMAS YARRA

(1) Harbour Acceptance Trials

Sonar Type 1708 Sonar Type 177M Sonar Type 185

Sonar Type 167 Sonar Type 162 Expendable Bathy thermograph Sonar type 1070

- (2) Beam Pattern checks were conducted on somer types 177% and 1708.
- (3) Sea Acceptance Trials were conducted on 1708 and 177M.
- (4) Mortar MK 10 calibration conducted at Rose Bay.
- (5) IKARA SQT (Phase 1) carried out with Vendrep support.
- (6) IKARA Range and Bearing alignment.
- (7) IKARA SAT 2 and 3. SAT 2 was reposted due to defective serial in Macchi aircraft.

# b. HMAS DERWENT (1) Mortar NE 10 Sea Check Firing which proved unsuccessful due to

fault in Solid State equipment of the Hodified Mortar.

c. BMAS SWAN

#### (1) IKARA Range and Bearing alignment.

- d. HMAS TORRENS

  (1) IKARA Rence and Bearing alignment
  - (2) Assisted Power Trials section to conduct EEE trials on defective IKARA Missile Firing Transformer.
  - (3) Attempted Mortar MK 10 Sea Check Firing aborted due to loss of Triplane target.



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# e. HMAS VENDETTA RESIRIOT

- (1) Advance Installation Inspection of diving store
- (2) Advance Installation Inspection of Sonar Compartments
- (3) Installation Inspection of Modified Mortar MK 10.

#### f. HMAS VAMPIRE

(1) Two attempts at a Mortar MK 10 Sea Check Firing, the second being successful.

### g. HMAS FLINDERS

(1) Advance Installation Inspection 'SIMRAD' Sonar and associated

#### Fittings.

h. MMAS OXLEY

(1) In conjunction with HMAS PLATYPUS and the Vermon Trials Team,
co-ordinated Post refit trials.

- (2) Propared a Trials schedule for the conduct of a Sonar Interference Trial to be conducted during 1973
- (3) Attended Post Refit Progress meetings.

### 1. Sonar Simulator 21B12C/WK 46 Compatibility Trial

(1) Conducted at Jervis Bay using a static NE 46 Torpedo suspended from a TEV. A providal trial of trailing a float from the 21812 to assist in visual positioning of the target was also conducted.

#### j. MK 44 Shallow Water Trials

 Phases one and two of this trial were conducted by RANTAU, with phase two being repeated due to incorrect torpedo settings.

#### k. Modified Mortar NK 10

(1) Factory trials were conducted at Salisbury with vender assistance.

#### 1. HMAS OXLEY

- Post refit trials in conjunction with EMS VERMON and COMAUSSUERONONE trials team. (Trials continuing).
- (2) Prepared Trials schedule for conduct of post refit Sonar Interference Trial.

During this period TAS Trials co-ordinated and participated in the following:

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### RESTRICTS

D-3

a. Diving Trials RESTRICTED

- b. MK 44 Torpedo Shallow Water Trial Phase I and II with a repeat of Phase II due to incorrect torpedo settings
- c. Modified Mortar MK 10 Factory tests at WRE Salisbury
- d. Sonar Simulator 21B12C/MK46 torpedo Compatibility Trials.

RESTRICTED



ANNEX E TO RANTAU LETTER

#### MARINE ENGINEERING TRIALS REPORT

NAFF: LCDR (GLEM) L. CURCESTEY
LCDR (GLEX) J.R. BUCHANAN
MECH 1 W.D. ERROR (vertil 1.12.72)
MECH 1 A.C. WHITTEN (from 27.11.72)
MS2 E.J. STEWERS

Part-time for NBCD: LCDR (GLEX) J.G. BIRD }- HRAS FEMGUIN

The department was involved in the following activities:

#### MAS VENDETY

4. 7.72 A.I.I. of Workshops, Laundry and Galleys 7. 7.72 A.I.I. of Accommodation and Sickbay

8. 9.72 I.I. of Hull and Fire Pumps 15. 9.72 F.I.I. of Storerooms (outside Trials Officer)

21. 9.72 A.I.I. Wontherdecks and Unrop. Arrangements. 13.10.72 A.I.I. Air Conditioning and Vontilation Compartments 26.10.72 A.I.I. NBCD and FF Arrangements.

# HMAS CERBERUS NARINE ENGINEERING DEMONSTRATION BUILDING

11. 7.72 Initial Acquaintance Visit 28. 9.72 Acceptance Trial of Diesel Air Compressor.

#### UMAS PETRINADO

10. 7.72 F.I.I. of Bosun's Store.

8. 8.72 A.I.I. of Storerooms (Outside Trials officer)
15. 8.72 A.I.I. of Crews Accommodation and machinery spaces

16. 8.72 A.I.I. of Grews accommodation and machin 16. 8.72 A.I.I. of Galleys, Pantries and Laundry A.I.I. of Workshops and Laboratory

29. 8.72 A.I.I. of Bathrooms and Heads 14. 9.72 I.I. of Samanaship Arrangements and Compass

26. 9.72 A.I.I. of Galleys, Pantrics and Laundry (P.E.2) 27.9.72 A.I.I. of Officers Accommodation

5.10.72 A.I.I. of FF Arrangements (Outside Trials Officer)
6.10.72 A.I.I. of Machinery Compartments including Engine and Propeller controls.

# SMALL HARBOUR TUG 504

7 and 8.8.72 HATs and SATs.

### WATERJEL

A demonstration was arranged at HMAS MIRIWRA on 10th October for a combined Service audience. The firefighting ability of WATERJEL was adequately demonstrated.

...2/



DINGHY TRIALS

RESIRIOTE

Brief trials were conducted on the St. Georges River to evaluate a placement dingly for the Lending Craft (Heavy). The dingby provided by the Arny was considered too small.

CONCRETE AMBUNITION LIGHTER

Companies Assured Lights

Combined with an investigation into load-induced hull flexing, acceptance trials were carried out on 22nd November.

SEACLEMS 32

Sescient 32 is a new GAMLES product which the makers claim will help solve
the problem of the disposal of oil sullage. In conjunction with the Deckyard
Laboratory, trials wave conducted in TOW COLLO early in September to establish the
purity of the officent into the harbour and the emailty of the reclaimed to

RADIO CONTROLLED SURFACE TARGET

19 and 20.12.72 Acceptance/Svaluation trials.

HMAS ERUNEI

11 to 13.12.72 CST's

HMAS SUPPLY

27.6.72 Probe Refuelling Trials 28.6.72 SECOMAK Siron Trials.

45 FOOT PATROL CRAFT

11.10.72 A familiarisation visit to Hawker De Havillands in respect of the craft being build for Malaysia.

25 MAN INFLATABLE LIPERAPT

19.10.72 Preliminary discussion with regard to future trials

33 FOOT GRP SRABOAT

25.10.72 User Acceptance Trials.



# CONFIDENTIAL

Report of Proceedings

D of 123

WATHAR

Dens

INM

3110 8/

42119/9/9/3

SECRETARY 3

AS(NS) (#855)

NOTES: A. This copy is circulated so that Board Members may see these reports soon after they reach Navy Office.

- B. The report will be given again to Bacrd Members with Director's comments if there is any matter of special interest in those comments.
- C. Circulation lists numbers 2 and 3 are referred to Directors and Heads of Branches.
- D. If any matter requires comprehensive treatment on reference to another Branch a new file should be raised, a suitable note being made above.

CONFIDENTIAL



The Secretary, DEPARTMENT OF THE NAVY.

### RANTAU - REPORT OF PROCEEDINGS FOR SIX MONTHS ENDED 31ST DECEMBER, 1970

References: A. ANO 497/70 paragraph 5.

B. Navy Office letter 1436/201/89 (ASNS) of 13th January, 1971.

 The enclosure is forwarded in accordance with the reference.

 With the increasing requirement for the wide variety of targets required for the various system evaluations, consideration is being given to the formation of a Target Services Unit to be attached to this Command. Navy Office letter at reference B is relevant.

markey pre segerter Doll
on new file - ROP REAR-ADMIRAL

Enclosure: RANTAU letter 1.16.2 of 7th January, 1971 with attachments.

For Information:

DUW

Flag Officer Commanding, H.M. AUSTRALIAN FLEER. (with enclosure)

Officer-in-Charge, RAN TRIALS & ASSESSING UNIT.

CONFIDENTIAL



# CONFIDENTIAL

# ROYAL AUSTRALIAN NAVY

RAN Trials and Assessing Unit New Beach Road EDGECLIFF ESW 2027

The Flag Officer Commanding,

RAFFAU - REFORT OF PROCESSINGS FOR SIX NORTHS EXCHED
3157 DECRIBER 1970

Reference : ANO 497/70 paragraph 5.

 It is pleasing to note that the Marine Engineering Communit is making more use of the Marine Engineering Trials Team.

2. Apart from accommodation and the number of postings in the TAS Trials toum, RANTAU has few worries.

 One of our worries which must be not exclusive to RAWTAU is the lack of adequate targets for all systems evaluations. A preliminary study of targets is in hand.

> (D.A.H. GLARKE) CAPTAIN, R.A.N.

Annexes ? A. Administrative Division activities

B. Weapons Assessing Unit sould C. IXARA Opeval Team Activities

O. India Operar leas activisted

B. Weapons Electrical Trials Unit activities

#### ATRITUTED AGUTUR GRANTON

The period 30th June to 3fet December has continued very tway
administratively. The work has mainly been in the Sydney area and
resulting in less air travel, but with WANTER and DESERM refits coming
to an end, constant air passages for trials teams to and from Helbourne
will be back in vocus.

#### a. Accommodatio

It is bought that upproved for HarMan to compay the new buildings whose Wigneries fraction will be destinationage peak may Offices an affection the peak of the said from the said from

#### b. Transport and Bos

The 10 seat whiche allocated to RUTMI in 1970/71 has now been received end hes proved invaluable in transporting trials personnel. A Hackinsony and Finant proposal for a Land Rover Spatish magan by the used principly for the land Rover Spatish and the seat of the land Rover Spatish and the land Rover Spatish and Spatish is expected to be received as RuTMI in early 1971 for trials. IN 168 will be related until antifactority completing the Smalls low will be related until antifactority completing the Smalls lower.

#### c. Repair and Maintenance

The best shed and garage areas will be painted early in the New Year. This will complete all painting in the Maval Batablishment MUSHOUTHER with the exception of Sayonars Slipway. The establishment has now been completely regainted in the last 2 worm and in meanwally a good state of remain-

#### d. Admin. Block

During recent very heavy rains in Sydney a large number of leaks in the ceiling became evident. It is suspected that the roof timeof is in a very poor state of repair. "FO has been asked to have the problem investigated for Form B action."

#### e. D.G. Range

The quote for Hajor Norks proposed at the D.G. Range building is austiced by Department of Norks. When this proposed work is completed the facilities at the D.G. Range should suffice for the next few years.

#### f. Office Facilitie

Supplied two wow ago Mais

- Despite constant resinters AURB has not yet approved the issue of an electric Romeo Vicker Buplicator for RAWTAU to replace the archaic inefficient hand operated presently held.
  - ii) A proposal to provide an updated Bank Xerox machine for RANTAU has been recently forwarded. A favourable reply is anticipated shortly from 0 & N.

#### . General

It is hoped that the ment 6 months will see RMFRM re-located in suitable offices and the recruiting of additional Administrative complement. The proposed new facilities and more staff will do much to providing an efficient "services back-up" for the Unit.

It is considered that all travel arrangements for uniformed at civil staff should be done by the Administrative Staff of RANTAN. The personnel socion at Garden Jelund have proved themselves unsatisfactory in cognizing travel for MANU personnel. A separate submission in this regard will be made when the new Admin. Staff is recruited.

# RESTRICTED AMERICA D TO RANTAN LETTER 1.16.2

#### WEAPONS ASSESSING UNIT

#### A. Present State

1. The state of staffing over the period is shown in the table below :
DATE TITE OF OFFICER APPROVED SELD-TEST APPROVED SELD-TEST SERVED TO THE PRODUCT OF T

1.7.70	Professional	10	6	Mil	Fil	4
	Sub- Professional	34	16	2	Nil.	16
31.12.70	Professional	10	6	1	3	Nil
	Sub- Professional	34	22	6	5	10
		- 44	28	7	8	1

#### 31.12.70

1. Boes not include sailor/WRAN billets of 5 and 7 respectively.

- New positions approved 8.6.70 and advised at end of June, 1970 so no advertising action was in hand at 1.7.70.
- Position recently became available due to internal promotion. Action will be taken in January, 1971 to advertise.

2. The most disconscring factor of the above table is that professional new negretarious and engestesson unbeprofessional officers have been difficult to obtain. Several steer(seasons have resulted in the applicants. Sense the content of the cont

3. The work and co-operation of the Civil Personnel Branch has oeed gratifying.

#### Overseas Visits

4. Hr. G.W. Thomson, Engineer Glass 2, returned from the United States after Tartar analysis training in October and his overseas wist report is in preparation. Heary recommendations are included and will be forwarded with covering comments in January, 1971.

 Mr. D.J. Stewart, Officer in Charge, Wespons Assessment Uniproceeded to Hawaii during the visit of TARRA and also visited New Zealand authorities in Auckland. His overseas visit report is in preparation and should be issued late Jarnary, 1971.

# ™ RESTRICTED

#### Accommodation

 Severe overcrowling has now resulted for the Weapons Assessing Unit and is having a marked effect on efficiency.

#### Facilities

 Considerable work has been undertaken during the period under review on both data acquisition (recording) and data reduction.

5. It is now been firmly exhalt index that the Empony Assessing that has a definite most of main house computing reality to revise the effort being expected on that reduction and also to considerably reduce the term around the of scalpers while otwering a Happer amount of Waldacks Three mounts and the scale of the s

 An automatic file reader has been installed and has assisted the initial stages of file evaluation. This will be one input for the computer facility.

#### Activities

10. Additional staff has allowed of devotion of some officers! time to look at eathbod, betwhitupes and functions and some work along these lines is progressing. During the second half of 1970 the following the second half of 1970 the following the first of this cost half some nearest.

- a. An appreciation of the Delmar Gugmery A/A Target with
  - An appreciation of the desirable parameters to be measured in A/A practices together with a treatise on the difficulties
  - e. An appreciation of the parameters to be recorded in the S.G.D.S. project.
  - . An appreciation of the parameters to be recorded in the MCDG project.
- Considerable work associated with recording instrumentation in subsarince and surface ships as well as target instrumentation.

#### mal Sumary

11. The Annual Summary of weapons practices is in preparation and should be issued by 1st March, 1971.

# RESTRICTED

#### Discussions with RAA

 A/LF. R. Crocker (BALF Eingswood) has visited and discussed assessment esthods of BALF Ein 46 torpeiose. Considerable mutual benefit could accrue and further discussion is planned for January/February, 1971.

RESTRICTED ANNEX C TO RANTAU LETTER 1.16.2

CANO 31/70 was published during the period. This re-defines the being taken up separately.

up a considerable amount of time of the team in monitoring and arranging items Visicorder paper was not available and the Timing Station had to be fitted in instrumentation and recording software were fitted in YARRA prior to her departure from Australia in September.

for the Hawaii area between 21st October and 2nd Hovenber. Pre BARSTUR discussions were held with USW authorities and the exercise was successfully torocdoes and instrumentation were returned by US MAC services.

Initial planning for the 1971 multi ship exercise is being defined

RESTRICTED

# RESTRICTED

10. Apart from the Operal to Freet's Other activation of importance have been the Imma Christon Beigling Purty-severing Beigl at Marill' in September. This group has provided inputs to the Pree play run parameters for the Operal. Advoce on the sectional superior of First finant integral has been provided to said. Advoce on the sectional superior of First finant integral has been provided to said. The SIT Council of the hast been trief the Lin connection that the Pree Pree of the Pree Pree of the Pree o

### HARDE ENGINEERING TRIALS UNIT

### Bont

In 60 has centimed to give good service, with one or two careyonisms. As operate substitution for a snew and faster boot are forwarded in Gutcher Walch symmutated in 18 the faster boot and forwarded in Gutcher Walch symmutated in 18 the faster boot and an advantage of the faster boot and allocated to Bullyoff. This boot has already experienced testing translet and is still with Gerden in and Dodynard, however the boot is expected the smalland early in Assarary when evaluation triving on the subjects of the smalland testing the Assarary has evaluated in the smalland testing the stages, that the angular small crite arrangement, were not be larger promptlene got to be fitted, will be a miscose in the 57 ft. Fartten mint. However, if the careagement is a motome, studies at the case of the stage of the st

2. Commander S.C. Fuller was relieved by Commander D.J. Dalton on

3. Since July the METU has been kept busy with the following

a. TORRES including Final sea trials.

b. SMIPE - Minehunter conversion - Installation Inspections.

c. DERWEST - post refit trials and inspections.

d. TRV 254 - Inspections and trials before commissioning

. The following "ad hoc" trials have also been carried out :

amset underwater tool

5. MAIN DESCRIPT is the first ship to sak for switzings from the MRMN for post-crift trials which is a good sign. However, it all ships in consistion ask for assistance from this unit for yes- and post-crift trials the present complement would be numble to cope with this load, that construction, "as book trials and associated report writing. Submissions will be forwarded for increasing the NG complement family then considered.

6. The N.E. Triels Officer has now assumed responsibility for all Impactions and Triels of ship usganine flooding and spraying arrangements which will be carried out in close liainon with the Ounsey and M.S Triels Officers. MLS TokenDE is due to complete early in January as is unother trial on MLS TOKENDE IN LIKE SCHAF System.

The known inspection and trial commitments for the next 6 months are :

Construction - TRV 255 - Two Harbour tues

- 33 ft. fleet boat b. Modernisation - HMAS VAUPIRE

c. Conversion - HMAS SMIPE

d. New equipment - HMAS NELBCURNE - bridge air conditioning.
- HMAS SUPPLY - Avont System modifications.

- 500 1b. bomb room - enclosed bridge

e. Post refit - HMAS DERMENT trials - HMAS MELBOURNE - catapult

### Trials Schedules

8. Some progress has been made on NE Schedules and the current position is that all schedules for equipments in HA Schedules FRAN and NORZES up to and including Beast trials have been completely, as have post refit schedules for other Type 12 Becorts and the Daring Class.

 A firefighting equipment trials schedule for new construction has been forwarded for ACMB approval and a draft Closing Down trial schedule has been written, but from experience requires amendment before approval.

10. Other schedules in hand are post refit schedules for BDG's and BMA Ships ANZAC and GUERNBOROUGH.

### WEAPONS ELECTRICAL TRIALS USIT

1. The period under review has been marked by a sustained programme of inspections and trials without the intensity of the previous six months.

 The heavy demand caused by SMAN's trials has been transferred to TORRENS with all but a few of SWAN's acceptance trials having been completed.

3. The namning situation has been generally stable with the notable exception of the EAS Trials fees where almost a 100% turnover of staff has taken place in the last six mosther. This busy teas will be without the

 Buring the period MEARA System Qualification Trials (SQT), modelled on the TAKHAR SQT process, were introduced in sodified form with EMISTAND's system being accepted using the new technique.

5. Little headway has been made in reducing the back-log of immgostions and trial a schedules requiring updating. To facilitate this important tasks a request has been forwarded for the BH schedule guidelines to be provided. It is hoped to concentrate on the schedule task on completion of TORING'S has accordance Trials have been completed.

6. Details of individual trials teams' activities are contained in the annewdices.

pendices : 1. Cunnery Trials Team activiti

2. Radio Trials Team activities.

3. TAS Trials Team activities.

AFFENDIX 1 TO ANNEX E TO RANTAU LETTER

7 JAN 1971

### GUNDERY TRIALS TEAD

1. With a reduction in the tempo of trials early in the period it was possible to update the MES 3 trials schedules and produce draft Baily System Operability Test Schedules for the MEZ and ME4 weapons system.

Impections were completed in TURENS and Earfour Acceptance Trials were progressed but not finished by the end of the year.

 In VAMPIRE advanced Installation Inspections of the Operations Room and M22 Radar Room were completed.

Due to commitments in TORRES of a high priority the only
assistance that could be provided to the Commenting Officer, MAAS DUCKESS,
use the services of one CFO who progressed trials of the MESS system.
Other members of the CFT completed other sections of the Earhour Trials
achieule on an opportunity bearts.

# CONFIDENTIAL PARMIX 2 TO ANUEX B TO RAUTAU LETTER 1.16.2 DATED 7 JAN 1971

### RADIO TRIALS TEAM

 After the heatic activity of the first half of 6970, a might lull at the commencement of the second half gave an opportunity for all members of the team to take leave. This helped prepare them for another active six months.

- 2. Inspections and trials were conducted as follows
- a. NORMENS Installation impositions of all radio, regar and electronic variars equipments. Harbour acceptance trials of all radio, radar and radar display continuents - some MATs are still contrabulors.
  - b. SWAN Harbour and See Acceptance Trials of Electronic parfare equipment.

    DF calibrations

    Pada Various Commune discourse

Radhas and mutual interference trials.

- c. SYDNEY Installation inspections, harbour and sea acceptance trials of multi-channel first broadcast equipment and 975. DF calibrations, polar diagrams.
  - KDHRA Pre-refit trials of radio and radar equipments.

    Fost refit trials of radio and radar equipments
  - THV 254 Installation inspection, harbour and sea acceptant trials of radio equipment.
  - f. BRISBANE Post-refit trials on HF/MF radio equipment.
- g. YARRA IKARA Harbour Acceptance Trials.
- h. DIAMAN-TIMA - Post-refit MF/DF celibrations
- PUS Installation inspection and harbour acceptance trials of concentre.
- j. QUEEN- Pre-refit trisls on all radio, radar and D.F. equipment.
- k. BANKS/ Post-refit redio and redar trials. MICOUN-TER
- 1. HAWK Radio and radar acceptance trials.
- m. CNSLOW Acceptance trials of HF and On-Line Radio equipment.
  - n. CERBERUS Installation inspection and acceptance trials of multi-
- o. DUCHESS Advance installation inspection and installation inspection of sulti-channel fleet broadcast equipment.

### COMPIDENTELL

p. DERWENT - Advance installation inspection of mult fleet broadcast equipment.	ti-channel
--	------------

q. SMIPE - Installation inspection of radio and radar equipment

r. VAMPIRE - Advance installation inspection of radio and radar compartments.

s. KUTTABLE - Installation inspection and acceptance trials of multi-channel fleet broadcast equipment.

t. ANZAC - Pre-refit trials of radio and radar equipment.

u. GULL - Pre-decommissioning trials of radio and radar equipment.

v. WILLIAMS - Part-acceptance trials of HF transmitting equipment TOWN awaiting installation at HMAS HUON.

 POSS KRANNE undertook a month-long course in transistor theory and application and dagital techniques during the August-September period. SAG COLDIV and POSS KRANNE did a one-day course on the operation of Early Xerox duplicating equipment.

4. Industrial unrest and other factors have contributed to many postponements and delays of inspections and trials. These now look like crowding together early in 1971 waking for a period of intense activity.

### TAS TRIALS TRA

 This period has been nore demanding than the previous six nonths, owing to the near completion of MLAS TORRESS. Trials and Inspections were carried out on the following ships:

a. SMAN - Erdak HATs, Alignments and Opsequence on Ikars.
Attempts at Ikara acceptance firings in
September and Ikara firings finally successfull

b. DERGENT - Advanced Installation Inspections and Installation Inspections on Medernised MCS 10.

. SUIPE - 193 Sonar Installation Immediate and Union

water Fittings Inspection.

Operations Epon.

e. QUESNBORGUGH - Pre Refit Trials.

- MUS TO installation Inspections and HATs, Ikara Installation Inspections and HATs, Sonar HATS, Underwater Fittings Inspection and Fall Outfit See Swide

. DUCHESS - Sonar HATs and Squid HATs.

h. BRISRABE - Ikara SaTs and one acceptance firing were held in August and a second acceptance firing in Sententials

 Trials were also carried out on Hall Outfits installed in HAS WATSON and Matchi IKARA fin Crount Trials at MAS NOWRA in December.

TAS Trials have also been co-ordinating diving trials.

### M. ROPETCH, POINT PRIALS TRAIN

Inspections and trials were conducted in HMA Ships as follows :

### - NODDING

Steering gear Fuffey, redder indicator Fuffey FII (Leundry Deprisent) II (Mattery Charging Rose) II (Ongassing), Adequate lighting trials; FII (Mattere Carrier Rose), FII (All office and inflammable Steer); FII (Matter Steer);

- b. YARRA
  - Generator Trials.
- . SWAM

MACAT Hoist FETs; Stabiliser investigation; SEACAT MER Prial and Cathodic Protection FETs.

- - Generator Trials.
- e. KINHA
  - Generator Tr
- Post-reft installation (resection of syrm and Robe Swinder
- g. ERISBASE
  - INAHA MME trial
  - . SNIPE
  - FII and trial (Broadcast systems); Generator trial
  - VARPIR
    - AII (Galleys, Laundry and Wheelhouse)
- 3. 3......
  - AII (MCS 10 Handling Equipment) and Generator Trial
- k. DUCHESS

 During the period SAP 2 Ayre completed a course in Adelaide on the modified MOS 10 system.



of is a regimenment for New Construction prejects hunce forward to be planned by natural. Ideal "

Reference: RANTAU letter 1/16/2 dated 7 July 1970.

Comment is requested on para 8 of the reference.

S Cent/ill

Dyx Noted SG 30/11



5.0444 N REPLY 03000 EAST AUSTRALIA AREA. GARDEN ISLAND, N.S.W., 2000

NS. 1/16/97

The Secretary, DEPARTMENT OF THE NAVY.

RANTAU - REPORT OF PROCEEDINGS SIX MONTHS

Reference: ANO 92/70.

1. The enclosure is forwarded in accordance with the reference.

2. The state of the various Trials Schedules gives rise for some concern as the validity of the Trials themselves is dependent upon the accuracy of these documents. It is hoped that the breathing space, which should be available upon completion of EMAS TORKENS, may permit time to be allotted for up-dating and modernisation of these schedules.

REAR-ADMIRAL

Enclosure: RANTAU letter 1.16.2 of 7th July, 1970.

Dy Rise 1/8.

Three D. De rouges. In some price cum

and action RESTRICTED COVERING CONFIDENT

FIG FOCEA ELLE BISHO



NS1-16-97

# ROYAL AUSTRALIAN NAVY

DAHC/IDS

env ouen 1.16.2 J

The Flag Officer Commanding EAST AUSTRALIA AREA OYAL AUSTRALIAN NAVY

New Beach Road EDGECLIFF NSW 2027

U - REPORT OF PROCEEDINGS

Reference: Navy Office Letter 465/201/320 (CO0455)

1. The following report dealing with the activities of the RAN Triels and Assessing Unit over the past 6 months is submitted.

2. The Annexes attached give detailed report of Trials teams and Weapons Assessment Unit.

3. This has been a very busy period which has resulted in two main problems:

a. Schedules: In most cases the schedules are out of date and need much time to be spent on them before

b. Write up time: This has been minimal and has unfortunately allowed many small arrang to open in

4. BIAS STAIN has been the usin task for the period and really "blooded" the trial tenus. This was the first new construction ship which RANTAU, in its present form, has dealt with. Many leasons have been learnt, and on completion of BHAS TORRENG Trials RANTAU should have a period where appraisance of the peat efforts on he ande and constructive proposals

5. The Mechanical Engineering teem is at last being sought out for Trials and if the last half of the period is any indication this teem will soon be fully employed on Trials work.

 Accommodation will be our main problem in the next six months.

of uste sensuales can be tackled.

As mentioned in team reports Ret working of refite and
can opic fruction would greatly help RAWIN in their planning.



margar & Administrative Section

B. Marine Engineering Trials Unit.

C. Wespons & Electrical Trials Units.

. Weapons Assessment Unit.

### e. Administrative Complement

A study of the Administrative section has recently been undertaken by Navy Office and a decision is expected should.

### . Administrative Officer

It has become very ordent in the last 6 months that the administrative Officer on an edepartally cope with the administrative Officer on an edepartally cope with the administrative dation. The present incumbers has been contributed to communication straight as well with the contributed of the cont

### . Library

The library is, and has been since its inception, a vary innequate utility. A committee has recently been act up to give a "may sheed" plan and it is hoped that mome of the recommendations can be implemented in the next few months so that a useful service on be provided.

### h. Reproduction

Reproduction of reports is still not up to standard but investigations are progressing to see what help can be given by the area printary before further recommendation for extra equipment are considered.

### 1. Cleaning of Building

There is a continuing rapid turnover of cleaning staff. It is hoped that approval for "contract cleaning" will be forthcoming shortly.

Annex B to OIC RANTAU Letter 1.16.2

### MARTHE ENGINEERING PRIATS THAN

l. Activities during the period have centred sainly in the Final Acceptance Trials and Inspections of both SWAM and TRV 253 together with Basen, Heeling and Contractors Sea Trials

2. Minor tasks undertaken in this period included evaluation trials of underwater Hull cleaning equipment, Gas Datector Units and Facific Fire pumps and Advance Installation Inspections in TRV 254.

3. M.E.T.U.'s only involvement with Fleet Units was assistance given during DLAMANTINA'S Post Refit Triels and the Acceptance trials of her newly invitalled its Constitutioning Flore

For the period 2nd Pebruary to 4th May the Marine Engineering Trials Officer was posted to TOHRENS(Temporary) as the ships E.O. However, during this period he was loaned to AMPRIN for Trial Numbers as required.

Annex C to OIC RANTAU Letter 1.16.

### WEAPONS AND ELECTRICAL TRIALS UNIT

 Details of individual trials teams' activities and problems are contained in the Appendices. The following general items are relevant.

### System Onelification Trials (SOT)

2. EARTAR SQTe provided an introduction for the RAN to this technique. Discussions have been held with Navy Office and Pleet personnel with a view to continuing TARTAR SQTs and introducing TRARA SQTs and possibly other SQTs with RANTAU playing a profilert part.

### Classification of Items srising from Inspections

3. A review of the "Hill be done - ("HD)" category is necessary in view of recent experiences in 7838. In carrying out "empor installation impactions many items were classified with and it was thought by Landin into all items so classified the summary of the previously categories where the contract of the contract of the previously categories where not in fast done. A submission will be repeated to Highlight the need for a revised gates which will allow priorities to be catallated, and indicate where necessary may time.

## Inspections and Trials Schedules

4. As can be seen from individual trials reports we have experienced a period of shorman activity with the common complaint that indequate time is available for writing reports, attending to routine correspondence, recessioning matters of concern to RATMI as covered by the terms of reference and countline and mandain scarcetance schedules which are required.

5. The situation should ease with the hoped for imminent final acceptance of SWAN. With resumption of a normal work load it will be possible to review whether RAWLAU's resources, particularly of manpower, is able to undertake all the tasks required.

### Inspection and Trials Programme:

to the Trailer better dilitation of inhibits recourse it important in the first section of inhibits of the section of the section of the bear approached at Tillianties and Joshitos Dockyret that tens on mainton the setwint to determine, with now confidence whan that services will be required. There he bear once that their services will be required. There he bear once that their services will be required. There he bear once that more use of the features will be seen.

www.ataaaa

tions and Radam Twinle Toom

- 2 Plantwinel Swiel- Seen (Bennel
- 3. Gunnery Trials Team.
- Mag Petolo Peop

# Appendix 1 to Annex C to OIC RAWFAU Letter 1.16.

dated JUL 7 1970

### CUMUNICATIONS AND RADAR TRIALS TEAM

 The present WETO(C) - joined on 16th February, after the job had no full time occupant for some 6 months.

2. Following inspections and trials have been carried out by the team in the last 6 months:

HOBART I.I. & HATS (SPA-83)

TRV 253 HATS (Radio)

PARRAMATTA - HATS (Radio, Concentre Masts & Aerial

PERTH F.I.I. (SPA 83)

MF/DF, HF/DF and UA3 Cals

ARCHER - I.I. (URC-58)

HUBART - TACAN Calibration assistance to AED MELBOURNE - TACAN Calibration assistance to

ERBERUS - I.I. & HATS - Tactical Trainee

OBART - Multi-Channel Equipment - HATS

PARRAMATTA - UHF and On-line SATa

MELBOURNE - Nulti-Channel Equipment - HAT.

SWAN - I.I. (Comcentre)
PERTH - UHF On-line SATS

TORRENS - A.I.I. (Redio) STUART - Multi-Channel HA

SWAN - I.I. Transmitter Room, RMR, Ops Room Annexes, LWO-Maste and Aerials

PARRAMATTA = AW/URT-23V investigation & Multi-Channel Hats

OVERS - HATS - HF and On-1:

J.B. Missile Range - I.I. (Selenia Radar) HATs & SATs (Selenia Radar)

OVENS - SATE (Redio) (limited assistance only SWAN - F.I.I. (Redio PT I)

SWAN - HATS (Radio PT I)

TORRENS - H. (Echo Sounder) - twice due to re-programmi

SWAN - I.I. F.I.I. & HATS (Radio PT II except EW) ENCOUNTER & BASS - Fre-refit Trials ARCHER - I.I. (Radio, following conversion)

DIAMANTINA - Poot-rafit Triolo

DIAMANTINA - Post-refit Trisls

NAS Nowrs - TACAN HATs and lisison with ARCU for calibration SWAN - Mutual Interference Investigation SATs (Radio & Radar) YARRA - Assistance to TAS Trials team W. Ikars.

3. Following commitments were not met, due to lack of capacity:

PERTH - UHF polar diagrams and URT-4 & Radar SATs PERTH - TACAN eslibration - no sesistance to ARBU

TORRENS - C.S.T. - only limited attendance could be provided

AMPIRE - Fre-refit triels (Radio) WAN - EW Sea tuning off West Head (limited attendance only

4. Following were the major commitments:

SWAN

J. B. Missile Range.

5. Throughout the half year the team resources have been taxed to the full, which reduced the amount of time available

6. Of the TO2 man-days available (counting all weekends and public holidays) 28% were spent every from Sydney area, including 45 "weekend" man-days. A particularly hard period was the month April-Mayrlane. It had become necessary on occasions to borrow personnel from outside the team in order to next the Countilments (these were included in the above to next the Countilments (these were included in the above.

7. A considerable amount of test schedules are now somewhat out of date and need revision. This task has not yet

Appendix 2 to Annex C to OIC RANTAU Letter 1.16.2

### ELECTRICAL TRIALS TEAM (POWER)

 The bulk of the teams efforts have concentrated on SWAN and TORRENS. This has resulted in a large proportion of time spent in Williamstown Dockyard completing f.E.P.s in SWAN.

 At times when visiting STAN for a particular inspection or trial it was found that the item was not ready. This could have resulted in time wasted but fortunately the team was able to redirect their efforts to other F.E.T.s currently progressing.

In this respect the team obtained a lot of co-operation from the Dockyard who were willing to switch their efforts to co-incide with ours.

4. Buth the experience gained in SWAN using the new format F.E.T.s, which were compiled by Many Office Annexe, it is anticipated that much time will be saved in applying these to TORRENS and an earlier start has been made in that ship.

5. Trials assistance has been given to other ships as

MKLBOURNE - Moonlighting
DIAMANTINA- Generator trials
Nav aid trials

Air conditioning trials

NWL 256 - Generator tri

REERUS - Fleetwork trainer installation acceptance and trials

Appendix 3 to Annex C to OIC RANTAU Letter 1.16.2 dated JUL 7 1970

### GUINERY TRIALS TEAM

1. The pariod has been one of intense activity and the members of the Gunney Frishe Team have species on sweeze of Go nights away from Sydney on acty. During March full Rembour and Ges accordance trials were conscitted in IMESA MERIMANTIA and STALL AND AND ASSESSED ASSESSE

2. The impactions of the see construction ships TORKENS and SEAN were time consuming and several repeat which were required to SEAN across the Find several region to SEAN across the Find several region to the second section of the second section that some original thought be given to the improvement of magnatine design instead of following the patterns of the past.

3. The Gunnery Trials Team is charged with the responsibility for advising on members to Acceptance Trials Schedules. It must be reported that this duty has not properly been undertaken during the paried due to other countinents. A major effort will apply the control of the control of the countine of the county of the countine of the county of the country of the c

4. LODE S. Frisell RaW joined EANTAU during February to assist in the preparation of instructions for the ME2/M44 System Operal. He also make record the writing of handbooks for the recording are seen at the recording are

5. LORE SDEN J.T. Tredres was posted to PERTH on 16th June 1970. His raisef as Gunnery Trials Wespons Electrical Officer, BORE GLEN WELD D.G. Tennert is in a non sesgoing medical category and in view of the nature of his duties his position at the moment is being clarified.

Appendix 4 to Annex C to OIC RAWRAU Letter 1.16.2 dated JUL 7 1970

### TAS TRIALS TEAM

 The period has been a particularly busy one. The team has fortunately been up to complement throughout and most dommitments have been met. These were:

### . Williamstow

- (1) SWAN I.T. & P. I.T. & HATO (PAS & TEARS
  - 2) PARRAMATTA HATS (IKARA, MCS 10 & SONARS
  - (3) VAMPIRE Pre-refit trials (NCS 10)
  - (4) DIAMANTINA HATS (Sonar)
- with VENDREP essistance.

### b. Sydne

- (1) PERTH I.I. & HATS (SQS-23 TRAM)
- (2) ERISBANE I.I.s and HATs (Ikars) (still in progress)
- (3) TORRENS I.I.s and contractors ses trials
- (4) QUESTEUE

OHRO (ERRERY)

- PARRAMATIA & PERTH
  - (1) OTTRECEOROR
  - (0) 2.22.22.22.2
  - (3) SHAW
- e. Sea Check Firing

## PARRAMATTA

HATe on PERTH's Ikera could not be undertaken and were carried out adequately by whips staff. They also wrote their own SAT report. PARHAMATTA undertook to write their own IKARA SAT report as well.

### Riving Trials

2. CDE2 have hed problems in coping with the trial commitments, largely due to the lack of a second diving bont with an ocean going ospability. This has been raised separately as an "Operation Requirement". Monetheless trials have eased off somewhat compared to the previous 6 monthly period.

### PRODUCE PLESS

### a. Staff

The technical team has spent most of the period in the field. Year jittle time has been spent in the office through solutions and the second strong, solutions are not been written or ugsted and day to day papersoft has received illtle attention. Even more important, the team has not had adequate thought any evident of original thought and price of important and original thought and price of important and original thought and price of important and original thought and price of importance and the second secon

### b. SWAN

Frasure and circumstances constrained the team to adduge the installation inspections (188 H.5MA) as stituted to the state of the state

### The need for network planning

This is a must.

### d. See check firings

The triplane target, which is used for see check firings, has not lived up to expectations and a great deal of time has been wested in obtaining firm contact. This matter will be raised approachlytransponder band appear to be the British 170

Annex D to OIC HANTAU Letter 1.16. dated JUL 7 1970

### BAPONS ASSESSMENT UNI

### Annual Summary of Weapons Practices

The summary for 1969 was issued in May 1970 and covers the routine work of the Weapons Assessment Unit for 1969.

### Staff

On the lat January 1970 the staff of the Weapons Assessment Unit numbered 17 and at the end of the period under review 22 and this left one vacancy, however, a selection has been made for this vacancy and it is probable he will join in Angust.

A new Haval Defance Act organisation was approved by Mavy Office to date 6th June 1970 and in effect increase the Weapone Assessment Unit staff from 31 to 56. Action is now in hand to recruit to this level and it is hoped that at least 50% of the increase will be schieved by the and of the year.

Mr. G.W. Thomson, Engineer Class 2, proceeded to the United States on the 4th May for a period of 5 months for courses of instructions and familiarisation with Turtar analysis.

During the partod under review there have been two visits by the staff of the U.S.M. Floot Hissile Systems Assessment and Evaluation Group: the first in January 1970 when 3 officers are started by Staff or Staff of the Staff o

### Accommodation

The new organisation proposals will result in overerowding of existing accommodation for the Wespone Assessment Unit and will preclude the permanent siting of some items of data reduction equipment. This matter has been covered elsewhere in this report.

### Finance

Due to changes in procedures there is some doubt in RANCAN of the mechanisms to be employed to ensure financial allowation for the sequisition of services, in particular computing services, to smoot the improved techniques that are proposed or for the sotion of the area Secretary and the Calef Staff Officer Administration.

### Stores

New stores procedures in respect of sequisition and accounting have now been defined and are being implemented. These will probably present little problems, however, some local consists assistance may be required in the implementation

### .G. Banges

The Sydney Deep and the Roll and Stray Field Ranges are cill out of commission and acce farther planning has yet to be solieved to enurse theoly completion of these projects. completion and acce far the projects. On the bands that Department of Forza will not be sole to complete their component out likeway will not be sole to complete their component until Marca 1971. The completion

- . Due to ministerial direction a re-siting and re-design
- b. some Maval Board decisions have yet to be received

### elemetry Station Jervis Bay

This facility has now been accepted into Naval service with some outstanding matters to be resolved. A report has been issued covering these outstanding motters.



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