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DEPARTMENT OF THE NAVY

Navy Office
CANBERRA, A.C.T., 2600

In reply quote 400/202/289

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The Captain
HMAS COONAWARRA

Director
Defence Signals Division
MELBOURNE

For Information:

Deputy Director
Engineering Wing
Weapons Research Establishment
SALISBURY S A

For Information:

The Assistant Regional Director
G.W.E.
Department of Supply
SYDNEY

For Information:

INSTALLATION TESTING OF THE PLESSEY H.F. AERIAL
DISTRIBUTION SYSTEM HMAS COONAWARRA (CAPO N243374)

1. System tests were carried out on the H.F. Aerial Distribution System installed by the W.R.E. Installation team at HMAS COONAWARRA. These trials were conducted by DWED and Station Staff during the period 5th October to 26 October 1972.

2. Trials Conclusions

The performances recorded against Paras 3.2, 4 and 5 Encl. 1 were satisfactory. To overcome the problems encountered with the Insertion loss test Para 3, it was agreed to broaden the Specification limits for the COONAWARRA installation (see attachment 1A). No problems were experienced with the performance of the PV560 equipments. The System has been accepted and is operating satisfactorily. There are a number of periphery installation and testing tasks outstanding, these will be completed as soon as possible.

Installation of the System to this stage is satisfactory. A significant improvement to the performance of Aerial Distribution facilities at COONAWARRA has been achieved.

3. Defects and DeficienciesAction Required

- | | |
|---|------------------------------|
| (a) As fitted drawings to be supplied | CEE Div WRE |
| (b) Complete Ship-Shore Gonio installation and items 45 to 118 Table B of Test Report | " " " |
| (c) Complete installation of items 1 to 66 Table D of Test Report | " " " |
| (d) Complete installation of Gonio positions, including the necessary interconnects to the 44 way distribution panels | " " " |
| (e) Provide limited access to the System in workshop areas | " " " |
| (f) Acceptance Testing of items 3(b), (c), (d) and (e) | DWED Staff |
| (g) Aerials 117, 137, 187, 307, 337 WB1 and SLPA require attention. Some were repaired by Ships Staff during the Test Period. Aerials 017 and 267 are suspect | Ships Staff |
| (h) Transmission lines on Aerials 117, 187, 307, 337, WB1, SLPA, require attention. Some transmission lines were repaired by Ships Staff during the Test Period | Ships Staff |
| (i) Output at 30MHz of the Test Set CT217 is suspect | Ships Staff |
| (j) Rack mounting Brackets for one PV562 not supplied | GWE Dept.of Supply
Sydney |

4. The test equipment made available by COONAWARRA was satisfactory, in particular, the RA17 receivers had been serviced to better than the Manufacturer's Specification in regard to Noise figure, Sensitivity, and general performance.

5. Serious system degradation will result unless the prescribed maintenance tasks are performed on this improved facility. It is therefore essential that the following tests be performed at the periodicity shown:-

- (a) Voltage checks (see handbook) MONTHLY
- (b) Performance checks (in situ)
Para 4 of enclosure 1 2 MONTHLY
- (c) Performance checks (in situ)
Para 5 of enclosure 1 ANNUALLY
- (d) Periodic Maintenance as
detailed on the Handbook
and associated equipment
handbooks.

6. Guarantee

The COONAWARRA Aerial distribution system was brought into operational service on October 26, 1972, from which date the 12 months guarantee period for the System (including PV 560 equipment) is valid in accordance with CAPCS N243374 and N244055.

Director of Weapons & Electrical
Engineering Design

Enclosures

1. Test Schedule. Installation Testing HF Aerial
Distribution System
2. Test Report and Attachments

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