

C181589

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- (ii) QF 4-in Twin Installations - installation of the first of the two QF 4-in Twin (Naval) eqpts at Petrie Bty, Sydney, NS has been completed and proof firing successfully carried out.
- (iii) Apparatus Indicating Magslip Cable Failures C Mk I - Two of these instruments (1 for Devils Bty Halifax, and 1 for Lingan Bty, Sydney) have been completed by CSRDE and fwd to MD No 6 for re-issue and installation).
- (iv) Starters Automatic TFL, C Mk 1 - The pilot model of this instrument has been completed by CSRDE and del to D Arty.
- (v) Range to QE Converters - The second and third Range to QE Converters have been fwd to MD No 6 for installation in Petrie and Chapel Btys, Sydney, NS.
- (c) Fd Arty
  - (i) Apparatus Manhandling QF 17-pr - Three sets of prototype models are now in process of manufacture.
  - (ii) Modification 25-pr for Upper Register Firing - modification of two Mk 1 25-pr carriages to Mk 3 - shortened axle as for Mk 2 and a hinged trail - nearing completion by manufacturer.
- (d) Mortars
  - (i) Doughnut Secondaries 3-in Mortar - Four hundred additional pilot models received from civ contractor. Tests are being arranged in conjunction with Serial No 733 hereunder.
  - (ii) Drag Tail 3-in Mortar Bomb - Wind tunnel tests being carried out by USA War Dept with encouraging results. Preliminary firings were carried out at Connaught Ranges, Ottawa. Further trials are being arranged at Valcartier in conjunction with Serial No 732 above. Additional sup of pilot models has been received.
  - (iii) Lt-weight Base 4.2-in Mortar - Trials are continuing in USA, Cda, and UK. Two new pilot models undergoing endurance firing trials at Meaford, Ont, failed. Minor modifications were added to the drawings, to reinforce pt of failure. Three pilot models were rebuilt accordingly and endurance trials were fired at Meaford with satisfactory results. One modified pilot model shipped to Aust per their request.
  - (iv) Recoil System 3-in Mortar - Design is continuing. Constr of mock-up model initiated at Ottawa Wksp.

30. ELECTRICAL AND COMM DESIGN

- (a) Lt-weight Metals
  - (i) The report on the physical and endurance tests of the 1.1/4" aerial indicates that the sec modulus of the tubing should be increased to withstand normal wind pressure with only one set of guys. Resistance to corrosion is very favourable.
  - (ii) Water tight connectors are now available for the experimental hermetically sealed magnesium case for use with the 58 Mk 1x W/S.