

(b) Equipment - General

Investigation of a new type of protractor has been completed. Consideration is being given to recommending its adoption to replace the Service "Protractor, Rectangular 6-in., Ivorine, A, Mk. III".

(c) Equipment - Coast Defence

- (i) Provision of parts to complete the sights for the 6-in. Mk. V Mountings at Lingan Battery is proceeding.
- (ii) Practice cams for Pt. Grey Battery, Vancouver, B.C., have been produced at the National Research Council, and sent to M.D. No. 11 for marking.

(d) Chemical Warfare

(i) C.W. Equipment (Research Establishment (C.W.) Ottawa)

Tests on protective dubbin for Army boots show that the present Canadian waterproof dubbin (commercial product issued to Canadian troops) increased the resistance of leather to liquid mustard gas only slightly. The protective dubbins specified by Britain and the U.S. afford greater protection.

Samples of a cellophane-coated fabric were tested as a substitute for oilskin fabrics now used in protective clothing.

In an attempt to make the Container Anti-Gas waterproof, experiments were carried out with various waterproofing materials.

(ii) Experimental Station, Suffield

The organization and provision of equipment for this station are continuing.

(iii) Container Assembly Plant

The production of Containers was maintained during the week at the rate of 1,800 per day, and the assembly of containers to facepieces was maintained at the rate of 2,000 units per day.

Quantities of detector papers, detector paints, smelling samples, and D.M. Ampoules were received and inspected.

(e) Signal Engineering, etc.

- (i) Two more Infantry Tanks Mk. III were delivered for suppression tests. It was found that bonding had not been carried out satisfactorily. The resistance at the joints was too high on account of improper cleaning. After re-bonding, signal noise level was found to be sufficiently low to permit a five microvolt per meter signal to be read over the No. 11 Wireless Set Range (five miles Voice on Low Power Set between two moving tanks.).
- (ii) Valuable information concerning armoured vehicles in general and filters for vehicle generators in particular was obtained at a conference on Tank Suppressional Methods held at U.S. Signals Labs, Fort Monmouth, N.J.