

6 August 1942

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9. As regards the Army Development Board, our most urgent needs are set forth in my cable GS 2016 dated 28 July 1942 to the MGO, with copies to you and Carmichael. These proposals are given there in order of priority. As regards the sight for the 20 mm, we have information from Kerrison which is additional to that taken out by Macrae. Morrison is going into the details and will take the latest information with him to Canada, so that Kerrison's new sight may be considered along with the MIT Gyro and the German FV 41.

As regards the gun itself, we do not mind whether we have the new Inglis, the Oerlikon, or the Hispano-Suiza. We want whichever one we can have quickest, for it is most urgent that we be given a thousand or more at the earliest practical date.

10. As regards projectile design for armour piercing, I would particularly like to see research work go on with a tungsten-tipped lead core in a magnesium-streamlined body, the tungsten-carbide tip to be made like an impulse turbine to ensure that the full momentum of the heavy lead core is expended in pressure forward and not used up in losses. Macrae has a rough outline of my proposals.

11. Congratulations to the National Research Council on the results achieved with CRDF at Halifax. It is indeed gratifying to know that substantial returns for our expenditures of time and money are now forthcoming.

12. I had a line from [J.T.] Henderson on his taking up his appointment with the RCAF to look after their RDE. He should do well and I think the experience will be useful, both to him and to the council. I do hope he keeps contact with our laboratories and that he will return to us later on.

13. As regards the employment of competent staffs in adequate numbers on research, the more I see of things here, the more I am certain of the message I tried to give Canada last winter that we must do our own development of new weapons and equipments. This should have first priority above production and everything must give way to this imperative need.

14. Please remember me to Dr Vannevar Bush when you see him. I enjoyed my talks with him in Washington and I am glad to see the result in