MEMORANDUM For Procurement Officer.

Subject: Contract NAV-2049 - Scale Equipment for 16-Foot High-Speed Tunnel at Langley Field, Virginia.


(2) Toledo Scale Company letter of Jan. 10, 1944.

(3) LMAL letter to Toledo Scale Company dated February 9, 1944, signed by Sherwood L. Butler.

1. We are in agreement with the proposed modifications to the levers, bellcranks, and similar parts for the 16-foot tunnel scale system, as described in reference (1). The proposed scale dial arrangement in which the dial indication is always positive instead of having a zero position on the dial with plus readings on one side and minus readings on the other is satisfactory.

2. Mr. Hem's proposal for a lever ratio of five to one instead of ten to one between the low capacity and high capacity drag scales is accepted. It is assumed that the scale divisions on the low capacity scale will be 0.2 pound, and those on the high capacity scale 1.0 pound.

3. In reference (2) Mr. Hem stated that he doubted that a sensitivity of 0.2 pound could be obtained for the low capacity drag scale with the particular arrangement that he had in mind at that time. It was stated in reference (3) that the sensitivity of 0.2 pound was required for the aerodynamic work of the 16-foot high-speed tunnel. A scale arrangement was proposed in reference (3) in which it was believed the necessary sensitivity could be obtained. We have not received any specific comments from the Toledo Company in regard
to the arrangement proposed in reference (3). Before the Toledo Scale Company is allowed to go ahead with the subject contract, it is believed that we should be informed of the provisions that have been made for obtaining adequate sensitivity in the low capacity drag scale.

John V. Becker,
Aeronautical Engineer.