Visit of representatives of Canadair Limited to the 8-Foot Tunnels Branch

1. On August 11, 1964, Messrs. Derek R. Woolley and Jerry K. Turek of Canadair Limited of Montreal conferred with the undersigned with regard to an excessive drag of a drone-type missile being produced by that company. Flight results indicate that the drag of the actual missile is substantially higher than the level indicated by wind-tunnel tests. As a result, the missile is missing the performance guaranteed by a substantial margin.

2. A comparison of the lines of the aft end of the actual missile with those of the wind-tunnel model indicates a substantially greater rate of curvature for the actual missile. Results from NASA report RM L55A24a, "Preliminary Results of an Investigation at Transonic Speeds to Determine the Effects of a Heated Propulsive Jet on the Drag Characteristics of a Related Series of Afterbodies" by E. E. Henry and M. S. Cahn, were shown to the visitors. These results indicated that the difference in curvature could account for most of the drag difference between the two configurations. Canadair representatives indicated that the actual missile would be modified to reduce this excessive curvature.

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