Your reference:
E-74-378-69

JUL 30 1969

Mr. T. Dansby
Manager, Aerodynamics Technology
Department
Lockheed-Georgia Company
Marietta, Georgia 30060

Dear Mr. Dansby:

We are in receipt of your letter to Dr. R. T. Whitcomb, dated June 23, 1969, in which you offer for our use several airfoil models for transonic wind-tunnel tests.

At the present time, two small facilities are being modified to permit tests of the type you suggest. The first tunnel will accept models of 4-inch (and possibly, 5-inch) chord, and is expected to be ready for operation in the Spring of 1970. The second tunnel is slightly larger, but will not be ready until several months later.

It is our intention to carry out tests of a series of airfoils which are related to Dr. Whitcomb's supercritical concept. The airfoils you refer to may be complementary to the series being developed at Langley. We are also interested in providing a cross-check on results previously obtained in the ARA facility.

We plan to select airfoils for test on the basis of general research interest, and will present the results in non-proprietary NASA publications. In the event that your airfoils are used, it may be necessary for us to modify the airfoil span and the tip supports in order to adapt the models to our tunnel. If these conditions are satisfactory to you, we would be pleased to give further consideration to the use of your airfoils in our program. You may send the airfoils to Langley for our evaluation and selection, or you may wish to provide us with more information regarding the basis and merits of the designs.

Sincerely yours,

Laurence K. Loftin, Jr.
Assistant Director