

ENGINEERING RESEARCH INSTITUTE

MIXING OF SUPERSONIC JETS

PROGRESS REPORT NO. 3

FOR THE PERIOD

NOVEMBER 15 TO DECEMBER 15, 1954

UNITED STATES AIR FORCE CONTRACT NO. AF 33(616)-2403

DEPARTMENT OF AERONAUTICAL ENGINEERING

UNIVERSITY OF MICHIGAN

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The modifications of the 4" x 4" variable Mach number supersonic wind tunnel, which will be necessary for the jet mixing program, are still in the design stage. These modifications may be divided into three groups: (1) Design of the nozzle blocks for the secondary jet; (2) design of a new diffuser section; (3) design of a settling chamber for the secondary jet.

The design of the new diffuser section has been completed. The design of the nozzle blocks for the secondary jet is approximately 50% completed.

Submitted for the Project
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