

RESEARCH NEWSREEL

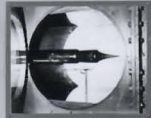


# SMALL SUPERSONIC TUNNEL FACILITIES

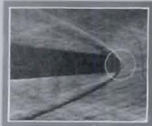
PRELIMINARY MODELS DETERMINE SUPERSONIC INLET CONFIGURATIONS.  
HEAT TRANSFER COEFFICIENTS ARE ALSO EVALUATED.



BASIC STUDIES OF AERODYNAMIC COMPRESSION



RAMIETS FOR MACH 3



SHOCK WAVE VISUALIZATION



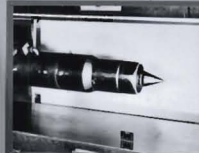
PRESSURE RECOVERY TESTS AT MACH 3



TEMPERATURE EFFECTS ON BOUNDARY LAYERS



THRUST STUDIES OF SUPERSONIC INLETS



SUPERSONIC INLETS FOR BUZZ INVESTIGATIONS



DO NOT HANDLE



# SMALL SUPERSONIC TUNNEL FACILITIES

## GENERAL STUDIES OF SUPERSONIC AIRPLANE CONFIGURATIONS



INLET AND EXHAUST INTERFERENCE STUDIES



ENGINE EFFECTS ON AIRPLANE STABILITY



LIFT DRAG RATIO MEASUREMENTS



DO NOT HANDLE

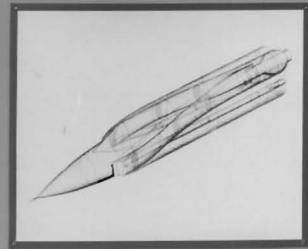
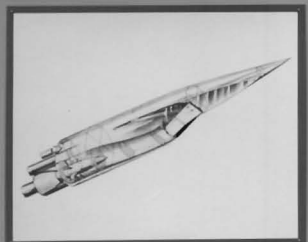
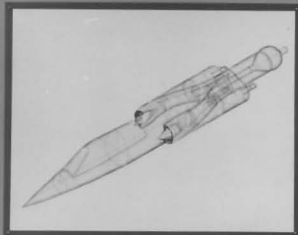






# RESEARCH ON AIR INLETS

ILLUSTRATIONS SHOWING MODEL SUPPORT AND FLOW CONTROL ARRANGEMENTS



PROBLEMS OF SPECIFIC AIRPLANES ARE INVESTIGATED  
IN ADDITION TO BASIC STUDIES



INLET LOCATION IS IMPORTANT



INLET DETAILS EFFECT PERFORMANCE

STUDIES OF INLET AND FOREBODY PERFORMANCE ARE MADE ON SPECIFIC AIRPLANE MODELS