16-FOOT TRANSONIC TUNNEL
50 Years of Research

Propeller research
Engine cooling
Wing section charact.
Wing/nacelle integration
Slotted test section

Test section air removal added
1961
Mach 0.2 to 1.3

16-Foot Transonic Tunnel
Added 60,000 hp drive
1950
Mach 0.2 to 1.1

Axi exhaust nozzle performance, noise suppressors, thrust vectoring

Configuration Aero and PAI:
Basic research
F-111, F-14, F-15, F-11F, P-1127
X-15, Scout, Apollo, Saturn, Titan II
C-5A, B-737, B-70

Supersonic propeller research

Configuration Aero and PAI:
Basic research
X-1A, NX-2
F-100, F-84, F-104, TFX, P-1127, F101
B-58, B-70, Swallow, A2F(A-6)

1940 1950 1960 1970
16-FOOT TRANSONIC TUNNEL
50 Years of Research, Cont.

Code development
Empennage interference
Nonaxisymmetric nozzles with TV and TR

**Configuration Aero and PAI:**
Basic research
F-111 TACT, F-14, F-15, F-18, B-1
X-24, Space shuttle
C-5A, ATT

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Turboprop and turbofan integration
Multi-axis thrust vectoring and reversing
Propulsive control

**Configuration Aero and PAI:**
Basic research
EA-6, HiMAT, F-15 STMD, B-1B
Space shuttle, NASP, SCR, PTA
Advanced aircraft