

PRIORITY PROGRAM  
PROGRESS REVIEW

3 MARCH 1965

- *TECHNICAL*
- *STAFFING*
- *EXPENDITURES*

## OPTICAL CAVITY

- TEST PROGRAM INITIATED  
CORNELL  
10% SCALE  
MID-MARCH TEST START
- ANALYTICAL

## CONFIGURATION OPTIMIZATION

• POLYSONIC SERIES II (M.5 → 5.5)

COMPLETED 26 FEBRUARY

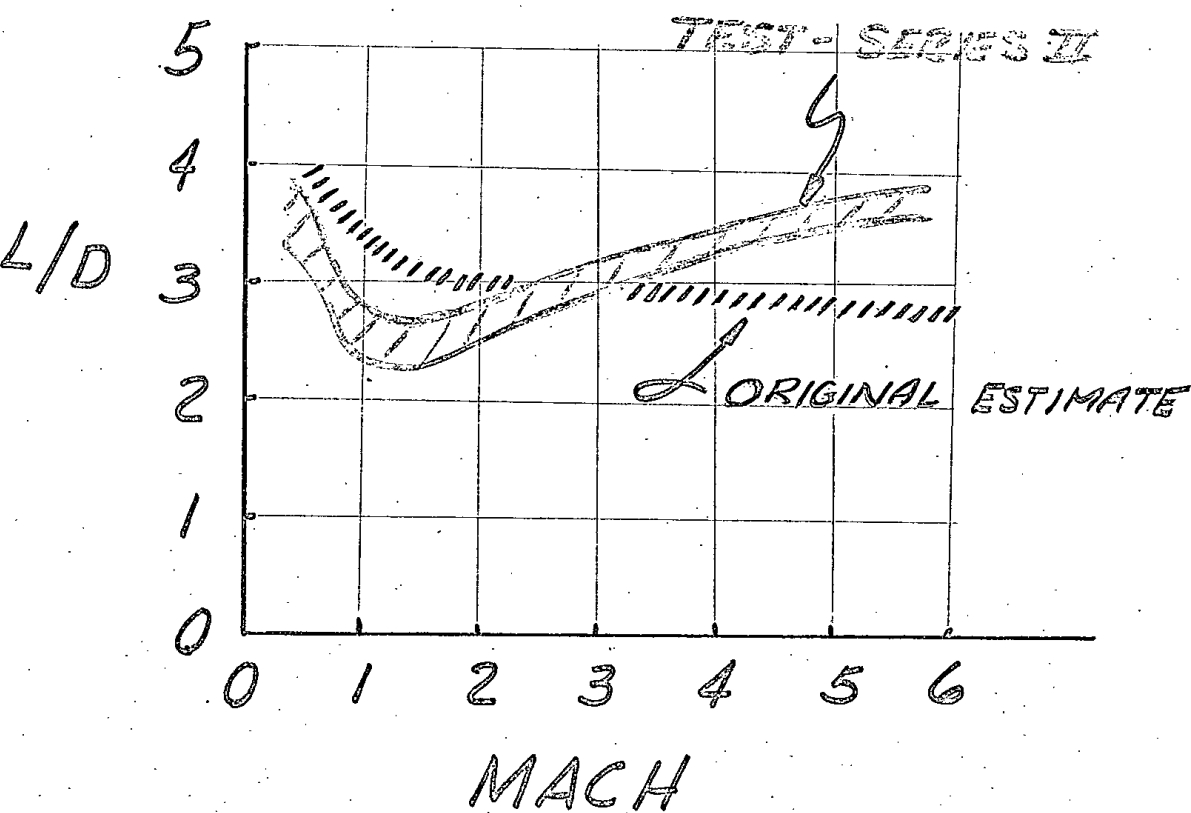
- IMPROVED TRANSONIC DRAG

- IMPROVED SUPERSONIC  $\frac{1}{D}$

- CONTROL EFFECTIVENESS SATISFACTORY

- SPEED BRAKE EFFECTIVENESS EXCELLENT

# AERODYNAMIC L/D



• *POLYSONIC SERIES III (M.5 → 5.5)*

*TEST DATE LATE MARCH*

*- CENTERLINE VERTICAL TAIL*

*- ALTERNATE BASE FAIRINGS*

*- CONTROL EFFECTIVENESS*

*- NOSE SHAPE EFFECTS*

◦ CORNELL TEST

- 2% SCALE MODEL
- LATE APRIL TEST START
- STABILITY & CONTROL OPTIMIZATION
- HYPERSONIC  $4/5$  REFINEMENT
- \$160,000

## LANDING QUALITIES

- TRANSONIC SERIES II (M 0.5)  
COMPLETED 26 FEBRUARY
- LOW SPEED TEST SERIES I  
7 1/2% SCALE  
TESTS STARTED 1 MARCH
- LANDING SIMULATOR PROGRAM



## B-52 LAUNCH

- TUNNEL TEST DEFINITION
- MODEL AVAILABILITY

# STRUCTURAL DESIGN/MANUFACTURING

- 10 TEST PROGRAMS UNDERWAY

- SHINGLE INTEGRITY

- TD NICKEL

- COLUMBIUM

- RENE 41

- L-605

- BERYLLIUM

- BRAZING TECHNIQUES

- WELDING QUALITY

- TANK LINER TESTS

# STRUCTURAL DESIGN/MANUFACTURING

## • ROLL BOND PANEL DEVELOPMENT

φ I - COMPLETED 26 JANUARY

φ II - 5 UNITS 2'x6'

3 UNITS 3'x9'

DOUBLE CORRUGATION CONF.

ASSEMBLED 26 FEB.

ROLL DATE 5 MARCH

# INSULATION GEOMETRY

- WICK-TITANIUM PANEL TEST
  - COMPLETED 26 FEBRUARY
  - PERFORMANCE GOOD
    - COOLING
    - WICKING
- CORNELL 10% MODEL TEST
  - BODY HEATING

TEST DATE - MID MARCH