N91-28214

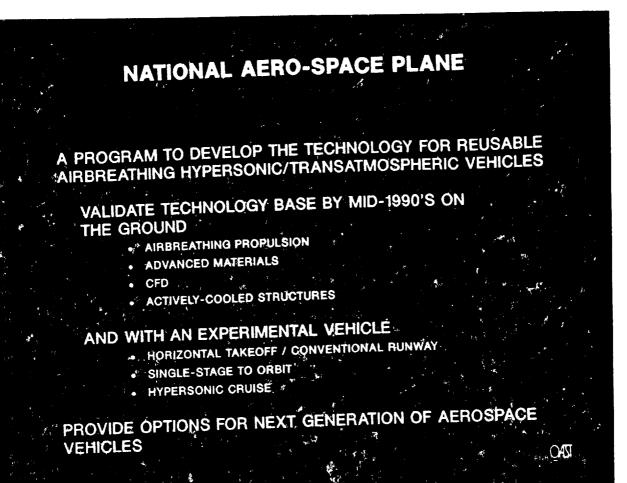
## NATIONAL AERO-SPACE PLANE (NASP) PROGRAM

00

PENNSYLVANIA STATE UNIVERSITY JUNE 26-29, 1990

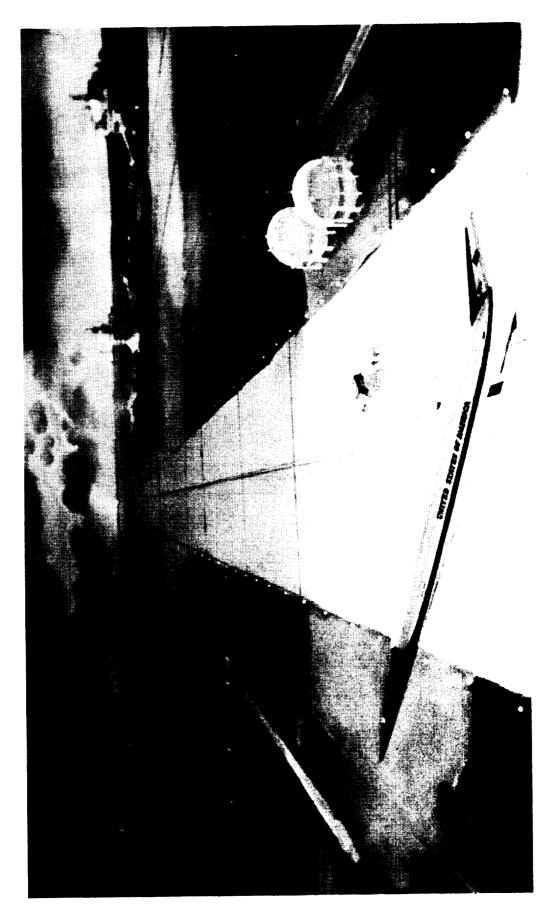
> MING H. TANG Deputy Director, NASP NIO Pentagon

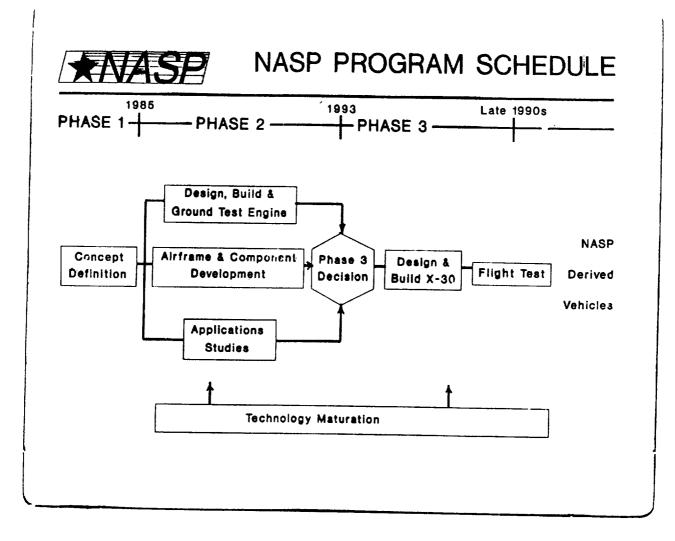




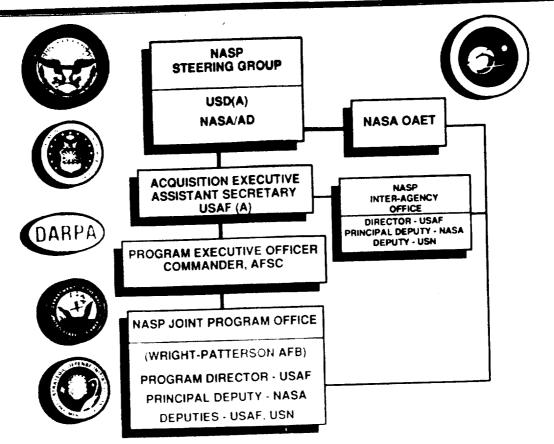
ORIGINAL PAGE IS OF POOR QUALITY

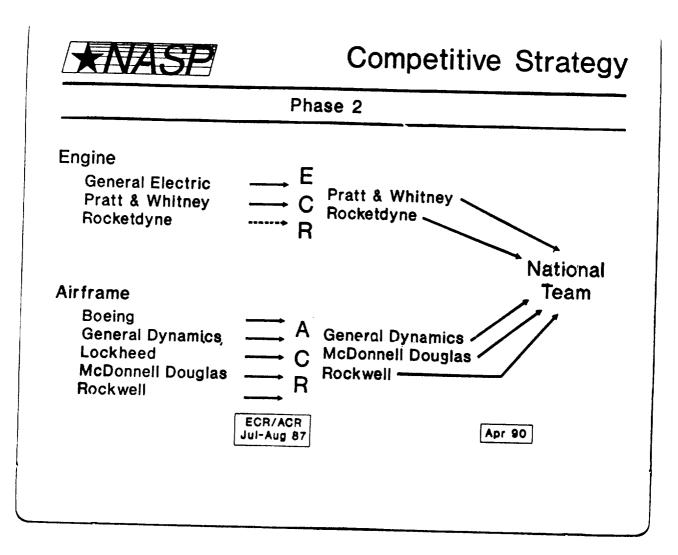


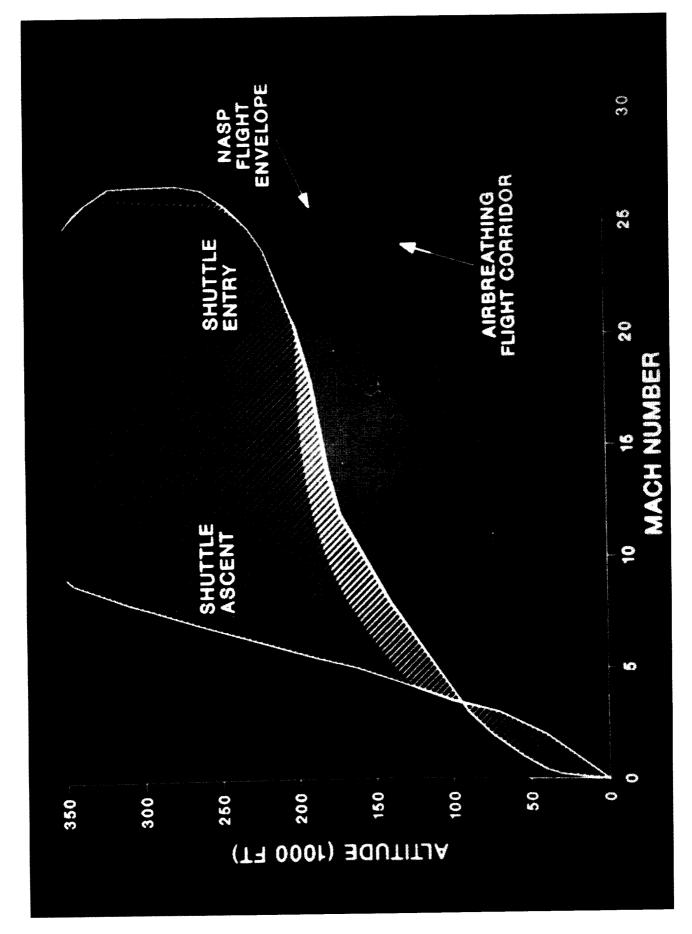


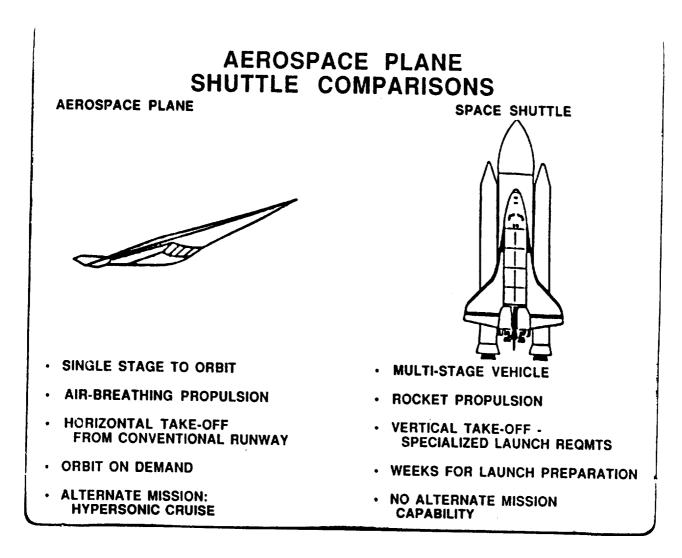


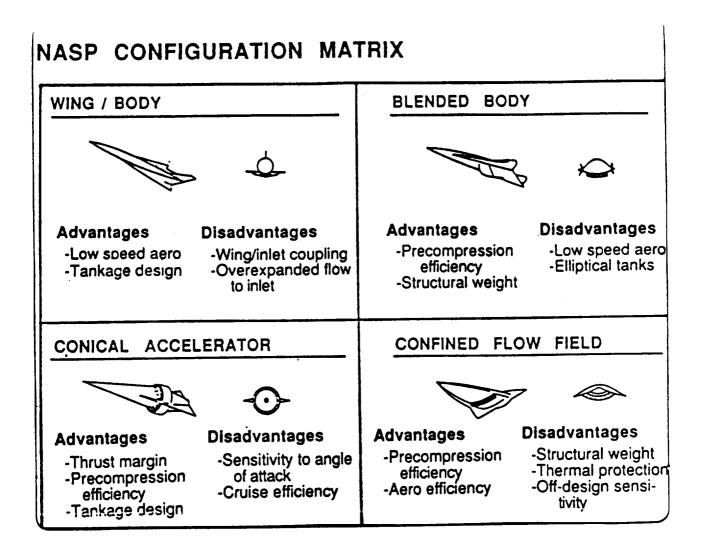
#### NATIONAL AERO-SPACE PLANE PROGRAM ORGANIZATION

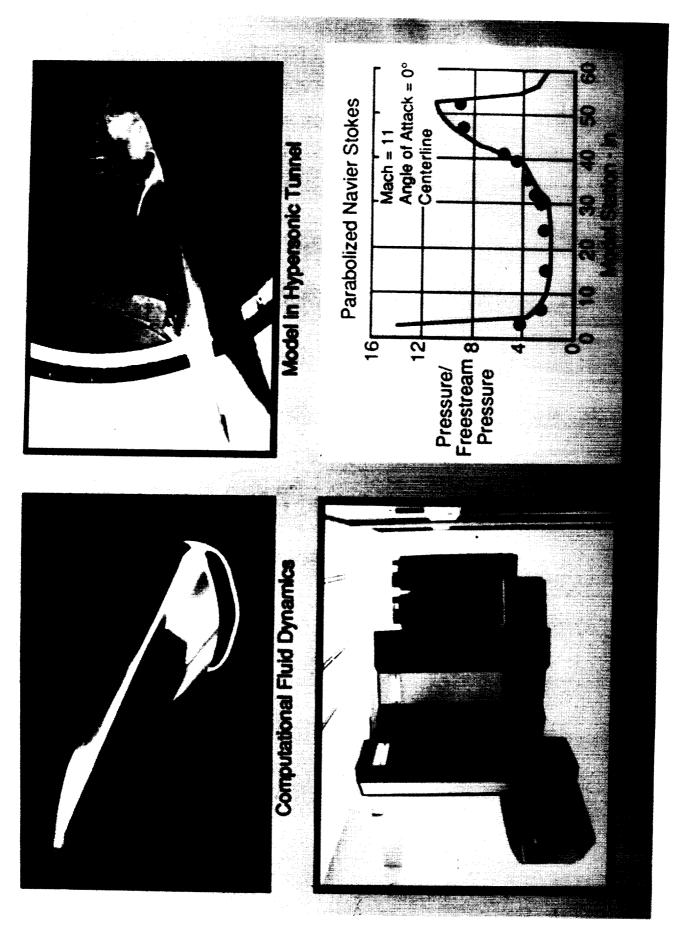


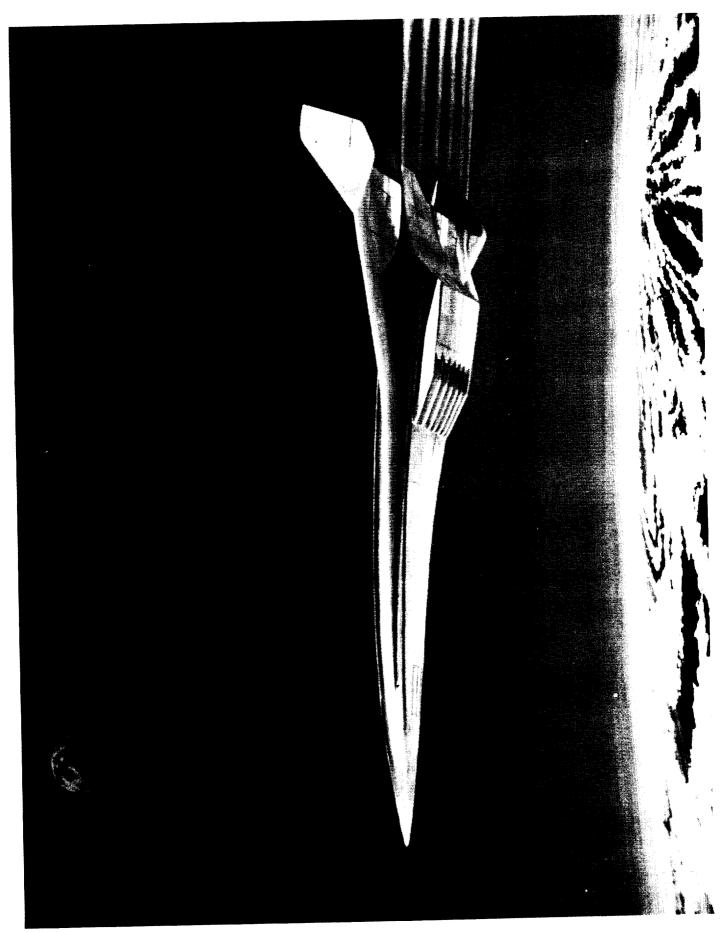


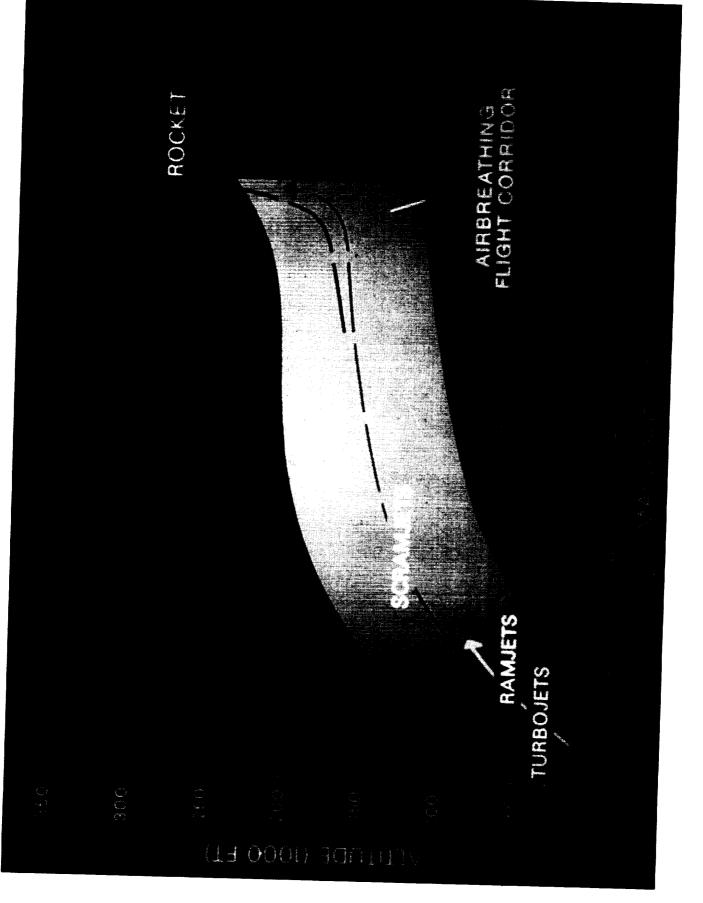


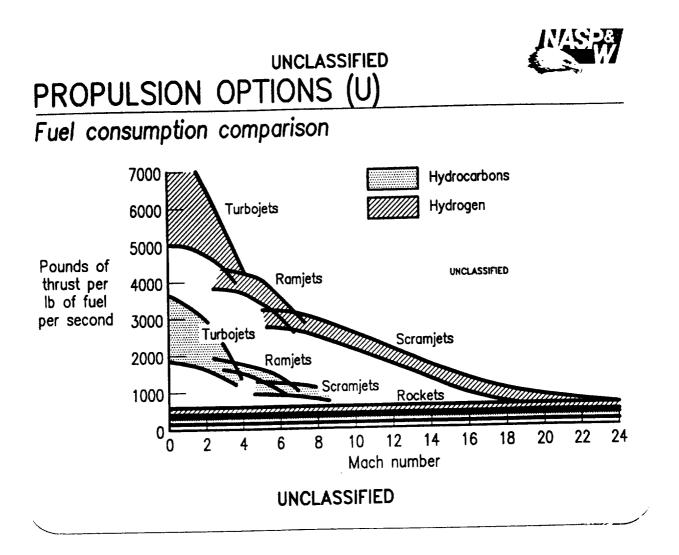


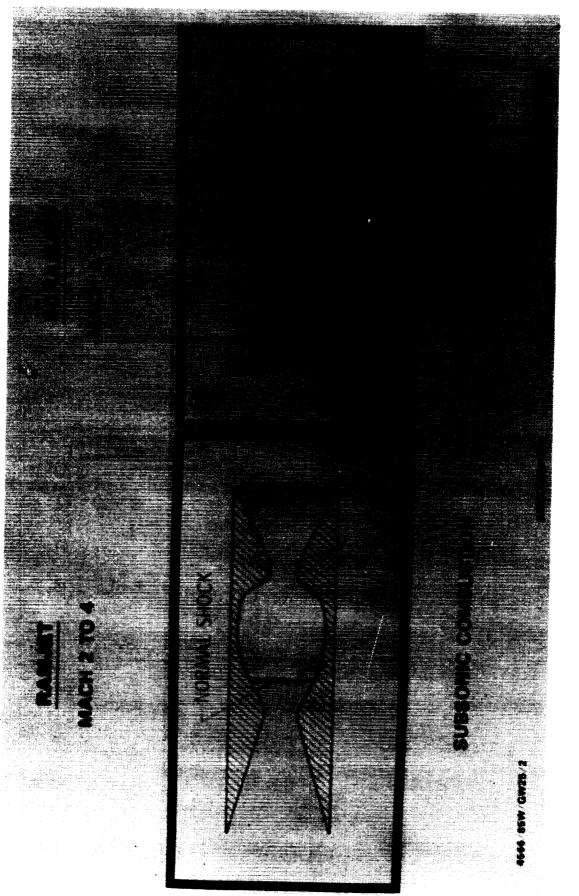






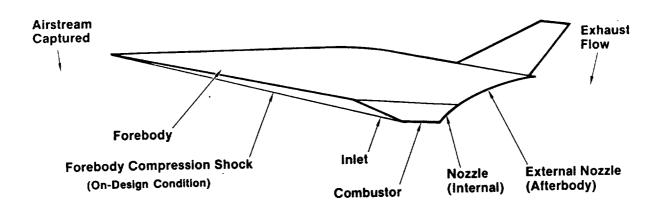






CTRENAL PAGE IS OF \$ DOR QUALTRY

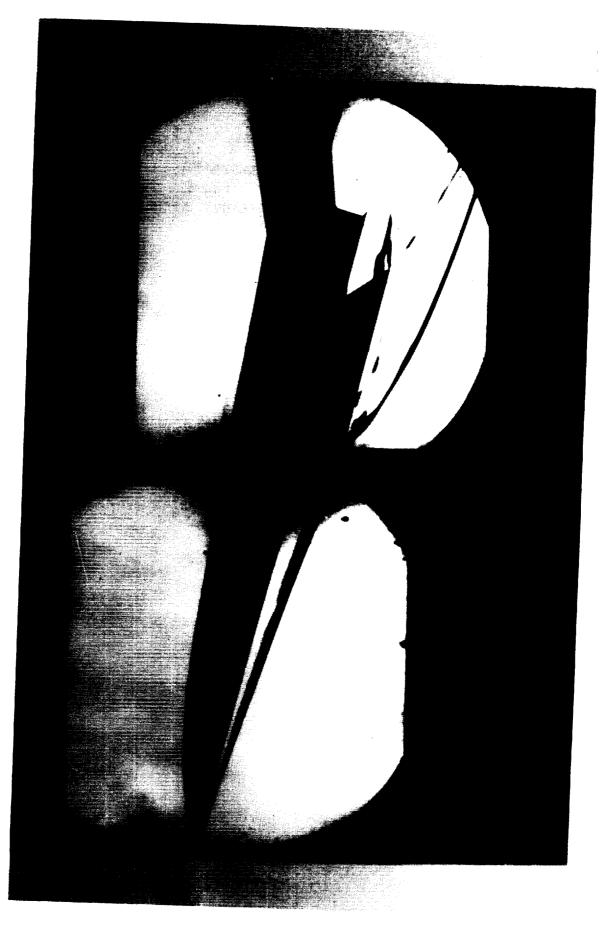
#### Propulsion Concept High-Speed Scramjet

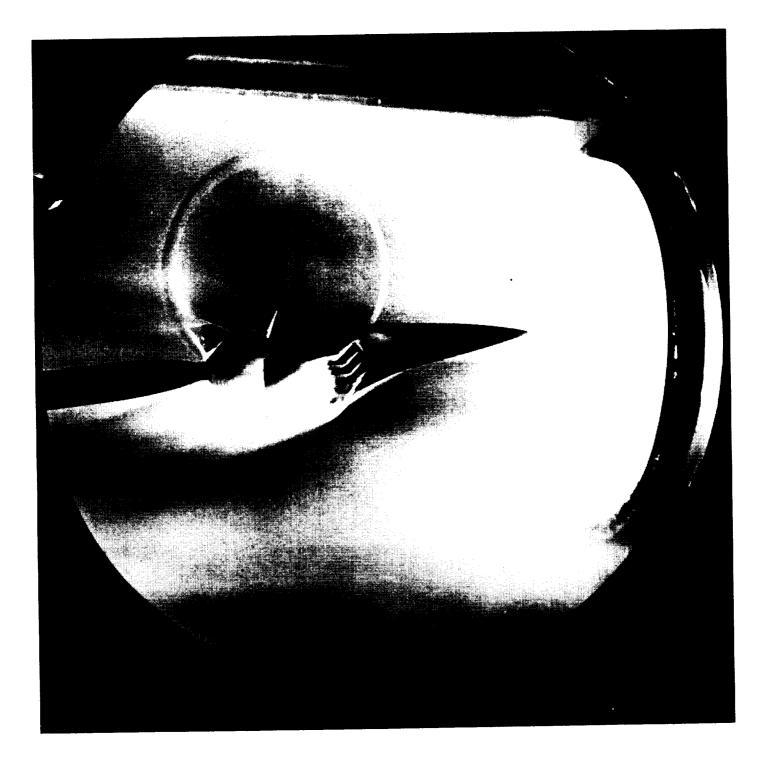


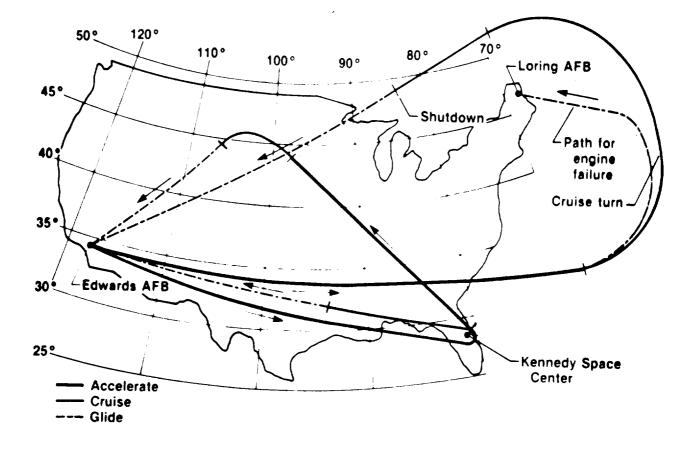
Rockwell International Bocketdyne Division

UNCLASSIFIED



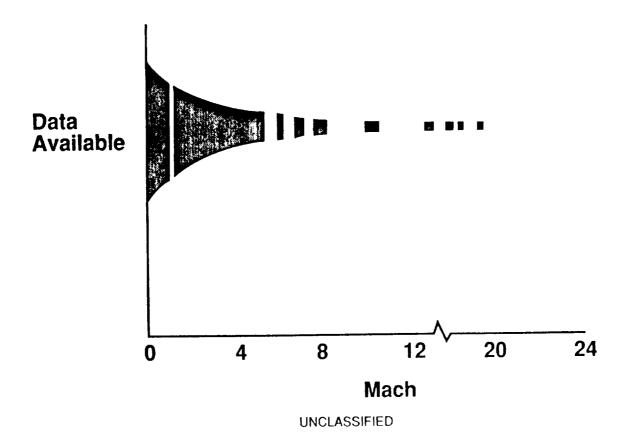


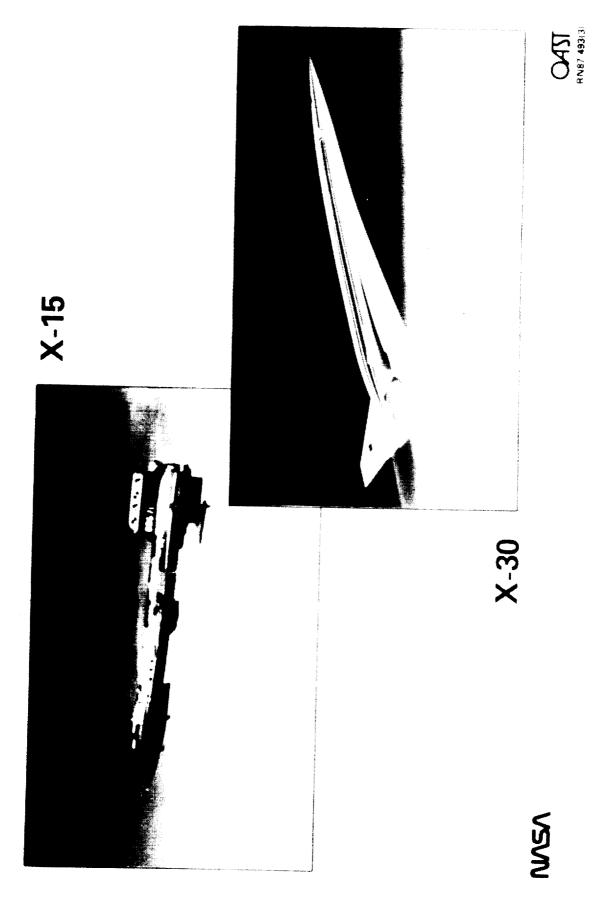


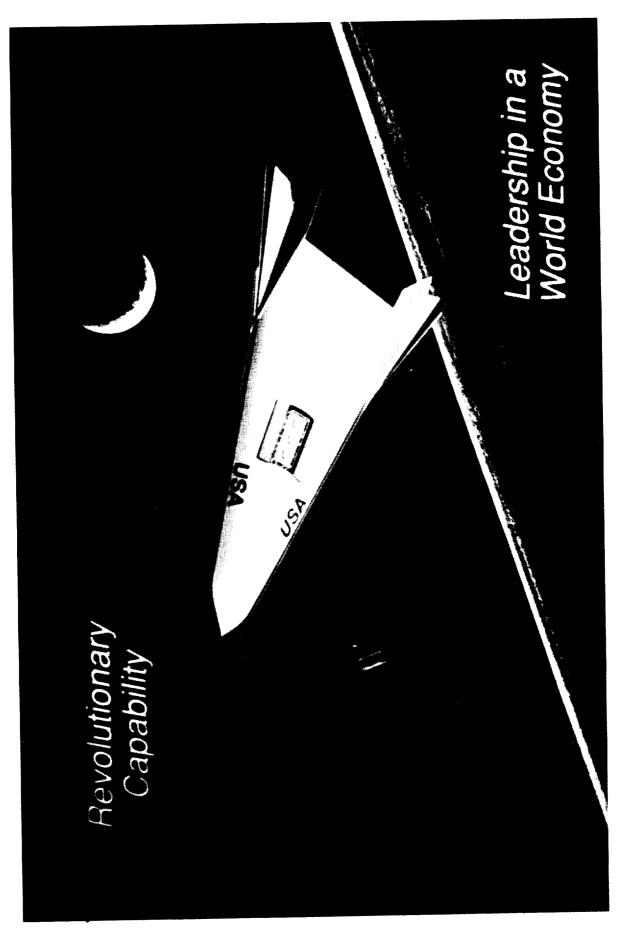


# Ground Track for Envelope Expansion (U)

### WIND TUNNEL DATA AVAILABLE FOR NASP (U)







**SECTION 1.4** 

# PROPULSION SYSTEMS OPTIONS-

#### FUTURISTIC SYSTEMS

409

·

PRESENTATION 1.4.1

## NUCLEAR AND SOLAR ELECTRIC PROPULSION