MANNED ACQUISITION OF ACTIVE TARGETS
MOL LAUNCH VEHICLES

TIII C (U)
32.8K# REF. P/L

TIII C - LDC 1
44.0K# REF. P/L
MULTI-MISSION GROWTH APPROACHES (APPLICABLE TO INTEGRAL OR RENDEZVOUS)

0 ASTRONOMY

0 ELINT, AND H. R. PHOTOGRAPHY

SECRET SPECIAL HANDLING
50 DAY DORIAN SYSTEM

TITAN III D-5 SEGMENT BOOSTER - 97° INCLINATION, 70-170 M.M. ORBIT

SECRET - SPECIAL HANDLING
SECRET SPECIAL HANDLING

RENDEZVOUS/RESUPPLY VEHICLE

EXTENDED MISSION SERVICE MODULE
- Automatic Mode Vehicle Service Module
- Add cryogenic tanks, fuel cells, and propulsion system
- Add crew transfer tunnel

BASELINE SERVICE MODULE
- Baseline vehicle unpressurized section
- Add docking hardware

- Launch weight 30,800 lbs

SECRET SPECIAL HANDLING
TYPICAL ELINT INSTALLATION

INSTALLATION CHARACTERISTICS

- HARDWARE WEIGHT
  - INCLUDING STRUCTURE - 480#
- POWER PENALTY
  - 250 WATTS OPERATING, 25 WATTS AVERAGE
- DUTY CYCLE
  - 10% ORBITAL DURATION
- DEPLOYMENT CYCLE
  - 100%
- PROPULSION PENALTY
  - 1 FPS/DAY

SECRET SPECIAL HANDLING

WHS-022
MOL AUTOMATIC MODE/RENDEZVOUS AUTOMATIC MODE VEHICLE

EXTENDED MISSION SERVICE MODULE (EMSM)

DOCKING PLANE

5'

14'

74.5'

Nose Fairing

AUTOMATIC MODE SERVICE MODULE (AMSM)

BASELINE SERVICE MODULE (BSM)

LABORATORY PRESSURIZED SECTION

MISSION MODULE
SECRET SPECIAL HANDLING

RENNDEZVOUS VEHICLE FAMILY

- RENDEZVOUS/RESUPPLY VEHICLE (RRV)

- RENDEZVOUS/AUTOMATIC-MODE VEHICLE (RAMV)
RENEZVOUS VEHICLE CONFIGURATION

- ONE YEAR ORBITING VEHICLE OPERATION
- 60 DAY RESUPPLY CYCLE

RRV FUNCTIONS
- ATTITUDE CONTROL (ACTS PROPULSION)
- PRIME POWER SYSTEM
- LIFE SUPPORT EXPENDABLES
- DATA SYSTEM

RAMV FUNCTIONS
- LIFE SUPPORT SYSTEM
- ATTITUDE CONTROL ELECTRONICS
- COMMUNICATIONS AND DATA HANDLING
- ENVIRONMENTAL CONTROL
SECRET SPECIAL HANDLING

T-III LDC 1 GROWTH
INTEGRAL LAUNCH

EMSM  BSM

38'  87'

0 TYPICAL 60 DAY VEHICLE WGT. = 41,000 LBS

T-III LDC 1 LAUNCH CAPABILITY (~42, 300 LBS)

I = 90°, 80/180 N. MI.

ORBITING VEHICLE WEIGHT
(1000 LBS)

DESIGN WEIGHT

EXPENDABLES "OFF-LOADING"

MISSION DURATION DAYS

SECRET SPECIAL HANDLING
MOL BASELINE VEHICLE

- GEMINI-B
- BASELINE SERVICE MODULE
- LABORATORY PRESSURIZED SECTION
- MISSION MODULE

72'