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D.16

P989 FOUR SATELLITE SYSTEM
ASSUMPTIONS (CONT'D)

GROUND SEGMENT:

    o MODIFY EXISTING NAVY STATIONS FOR:

           - FARRAH PROCESSING

           - COMPATIBILITY WITH SGLS

    o MODIFY   FOR MULTIPLE SATELLITES: 25X1

           - MISSION PLANNING

           - TI PROCESSING AND REPORTING

LAUNCH SEGMENT:

    o

HANDLE VIA BYEMAN
CONTROL SYSTEM ONLY   25X1

D.17

P989 FOUR SATELLITE SYSTEM
LAUNCH VEHICLE ASSUMPTIONS

o   LAST DELIVERIES OF ATLAS IS IN FY 84 FOR CURRENT ORDERS.

o   HAVE TO BUY 3 ATLAS' AT A TIME. OPTIMUM STRATEGY WOULD BE 4 AT A TIME.

  - FIRST ONE AVAILABLE 36 MONTHS
  - SECOND ONE AVAILABLE 42 MONTHS
  - THIRD ONE AVAILABLE 48 MONTHS

o   18 MONTHS BETWEEN BUYS OF VEHICLE IS MOST CAN STAND WITHOUT SIGNIFICANT NON-RECURRING COSTS.

o   ASSUME TWO BUYS OF ATLAS':

  - 3 ATLAS IN FIRST BUY (START OF FY85)
  - 4 ATLAS IN SECOND BUY (MIDDLE OF FY86)

o   PROCURES 100% OF ELV'S   25X1

o   ASSUME SPACE DIVISION WILL CONTINUE TO LINE FUND SPACE LAUNCH COMPLEX 3:

  - GDC
  - ROCKETDYNE   250 EQM
  - GE (GUIDANCE)
  - DMSP CURRENTLY SCHEDULED THRU FY 89

TOP SECRET

HANDLE VIA BYEMAN
CONTROL SYSTEM ONLY   25X1

D.19

P989 FOUR SATELLITE SYSTEM
ASSUMPTIONS (CONT'D)

o   PROVIDE OPTION TO TRANSITION OUT OF THE SCF

o   PROVIDE OPTION TO ADD TRANSPORTABLE GROUND STATION
    FOR SURVIVABILITY.

T O P   S E C R E T /

HANDLE VIA BYEMAN
CONTROL SYSTEM ONLY   25X1

D.14

OPTION TO TRANSITION
OUT OF THE SCF
(BASE YEAR 82 $)

o USE NEW MCC (DSM) CONFIGURATION

o O&M IN MCC

- 90 EQM INCLUDED IN CURRENT MISSION SUPPORT BUDGET LINE
  (TWO SATELLITE SUPPORT)

- ADD 15 EQM/SATELLITE ($1.0M/SATELLITE) FOR FOUR SATELLITE
  SUPPORT - [   ]   25X1

o MCC/NAVY WIDEBAND COMM LINK
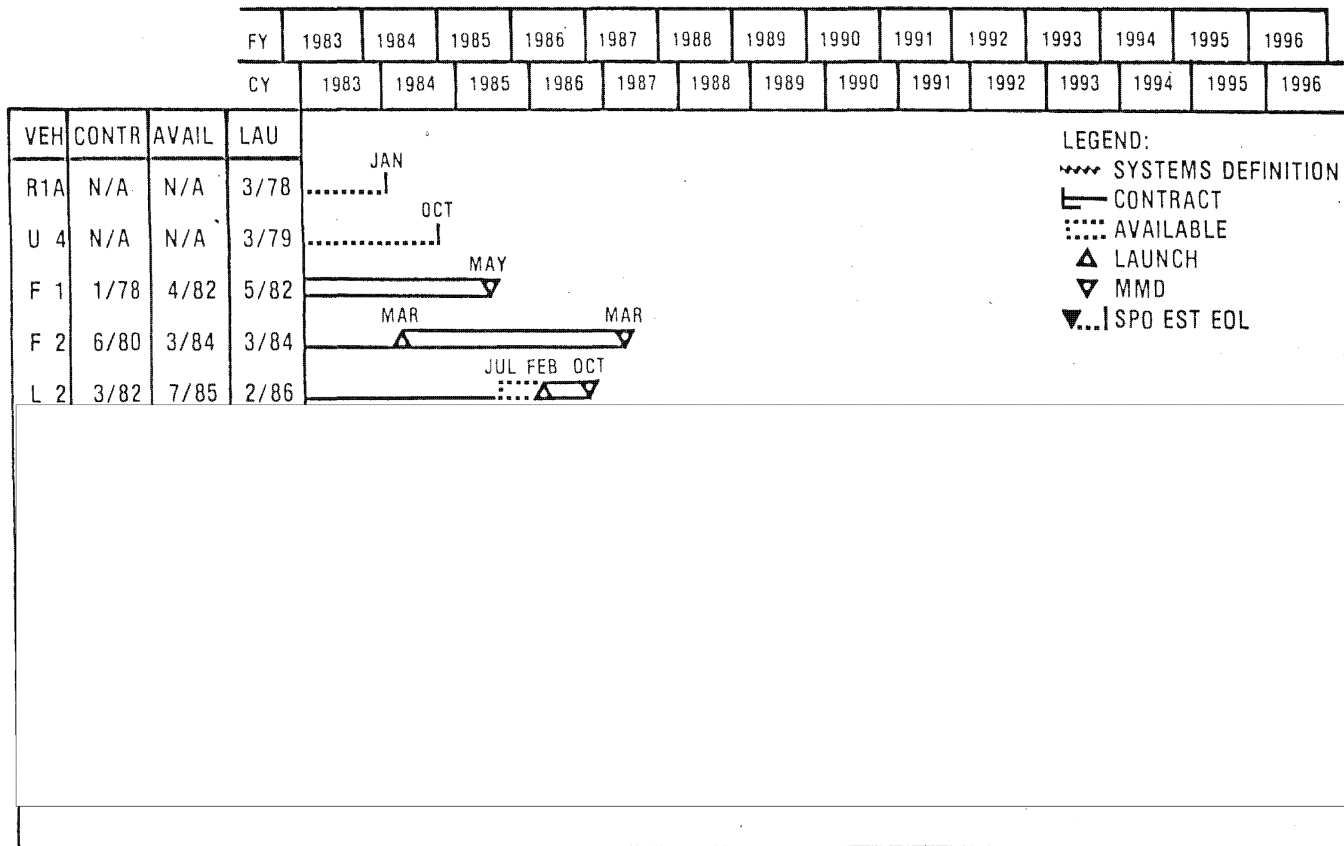
- COMM EQUIP $20.0M

- COMM LINK $ 2.0M/YEAR

T̶O̶P̶ ̶S̶E̶C̶R̶E̶T̶/[   ]   HANDLE VIA BYEMAN
                                              CONTROL SYSTEM ONLY   25X1

P-989 P3

P-989 FOUR SATELLITE SYSTEM

FY	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
CY	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996

VEH	CONTR	AVAIL	LAU
R1A	N/A	N/A	3/78
U 4	N/A	N/A	3/79
F 1	1/78	4/82	5/82
F 2	6/80	3/84	3/84
L 2	3/82	7/85	2/86

LEGEND:
~~~ SYSTEMS DEFINITION
└── CONTRACT
::::: AVAILABLE
△ LAUNCH
▽ MMD
▼...| SPO EST EOL

25X1

25X1

HANDLE VIA BYEMAN CONTROL SYSTEM ONLY

D.21

P989 FOUR SATELLITE SYSTEM
COST COMPARISONS
(THEN YEAR MILLIONS)

	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89	TOTAL
NRP/DRSP INCREASE TO P989 PROGRAM:							
SPACE SEGMENT*	15.0	24.6	132.9	182.6	202.2	186.5	743.8
GROUND SEGMENT			3.4	5.9	4.1	1.7	15.1
COMPATIBILITY	8.4	16.7	4.1	3.0			32.2
LAUNCH SEGMENT	20.3	63.6	100.9	104.9	72.5	32.5	394.7
TOTAL NRP/DRSP INCREASE	43.7	104.9	241.3	296.4	278.8	220.7	1185.8
**CCP INCREASE:	4.5	18.5	19.2	11.6			53.8
			3.4	5.2	4.0	2.7	15.3
TOTAL CCP INCREASE	4.5	18.5	22.6	16.8	4.0	2.7	69.1

*INCLUDES OBPS ON F4 AND SUBSEQUENT
**CCP INCREASES WILL BE OFFSET BY DELETION OF UPGRADE REQUIRED AT

25X1

D.22

P989 FOUR SATELLITE SYSTEM
COST COMPARISONS (CONT'D)
(THEN-YEAR MILLIONS)

	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89	TOTAL
P989 INCREASE (BASIC PROGRAM) NRP/DRSP	43.7	104.9	241.3	296.4	278.8	220.7	1185.8
CCP INCREASE	4.5	18.5	22.6	16.8	4.0	2.7	69.1
OPT TO TRANS OUT OF SCF		11.6	8.2	8.9	3.2	3.8	35.8
OPT FOR TRANS GRND STATION	1.2	10.6	10.6	6.1	5.4	4.3	38.2

TOP SECRET

HANDLE VIA BYEMAN
CONTROL SYSTEM ONLY

25X1