

Approved for Release: 2025/06/18 C05137235

C  
CONTRACT GO-AHEAD

JUL 77

IF BLOCK IV PAYLOAD IS NOT COMPLETED THESE DATES  
CAN BE DELAYED THREE MONTHS.

4. TO KEEP THE ITEK CAMERA DESIGN ALIVE AND TO OBTAIN  
REALISTIC COST INFORMATION, THE FOLLOWING FUNDS ARE  
REQUIRED:

(DOLLARS IN MILLIONS)

FY 76 FT FY 77 TOTAL

6.858 1.453 .528 8.839

COSTS PERTAINING TO THE DEVELOPMENT, PRODUCTION  
AND OPERATION OF BLOCK IV WILL BE INCLUDED IN THE  
MAY BUDGET SUBMISSION AND ARE NOT INCLUDED HEREIN.

5. THE OPERATIONAL FLEXIBILITY INDICATED IN PARAGRAPH  
B(1) THRU (4) OF WHIG 8370 IS OBTAINABLE WITH EITHER THE  
PERKIN ELMER MODIFIED FILM TRANSPORT OR THE ITEK

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DESIGN. WE CURRENTLY PLAN TO INCLUDE MFT AS THE  
BLOCK IV BASELINE THEREFORE THERE ARE NO ADDITIONAL  
COSTS INCURRED IN OBTAINING THIS OPERATIONAL FLEXI-  
BILITY. STUDIES AND ANALYSES IN PROGRESS WILL DEFINE  
EFFORT REQUIRED TO SATISFY NIIRS 4 UNDER A RANGE OF  
CONDITIONS. MILESTONES AND COSTS WILL BE DETERMINED  
SHORTLY AFTER THE SIERRA STUDY IS CONCLUDED. WE ARE  
STUDYING THE DATA PROVIDED BY WHIG 8476 TO ASSESS  
IMPACT TO THE BASELINE, IF ANY.

6. IN RESPONSE TO PARAGRAPH E, WHIG 8370; WE ARE CUR-  
RENTLY ANALYZING AN INCREASE IN THE SUPPLY STACK  
DIAMETER WHICH WILL PROVIDE AN EXTRA 3500 FT ON EACH  
SIDE. CHANGES IN SUPPLY SERVO LOOP AND STACK DIAMETER  
DETECTOR MAY BE REQUIRED. INCORPORATION OF THESE  
MODIFICATIONS AS EARLY AS MISSION 1215 MAY BE POSSIBLE.  
A FURTHER INCREASE IN THE SUPPLY STACK DIAMETER PRO-  
VIDING ANOTHER 3500 FT ON EACH SIDE IS ALSO BEING  
STUDIED. IN ADDITION TO THE SUPPLY SERVO LOOP AND STACK  
DIAMETER DETECTOR CHANGES, THIS INCREASE WILL REQUIRE

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MODIFICATIONS IN THE TAKE-UP ASSEMBLY AND IN EQUIP-  
MENTS AT BRIDGEHEAD. THESE CHANGES ARE PLANNED FOR  
INCORPORATION NO EARLIER THAN MISSION 1219 (BLOCK IV).  
BOTH OF THE ABOVE CHANGES ARE APPLICABLE TO EK 1414.

7. THE SOFTWARE MODIFICATIONS REQUIRED FOR BLOCK IV  
WILL BE DETAILED AS THE HARDWARE MODIFICATIONS ARE  
IDENTIFIED. THE INITIAL ESTIMATE FOR THE CAPABILITIES  
IDENTIFIED IN YOUR MESSAGE IS FROM 2.5 TO 3 MILLION

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DOLLARS. STUDIES ARE IN PROCESS TO DETERMINE THE DESIGN INTERDEPENDENCIES OF THESE CAPABILITIES.  
E. IT IS DIFFICULT TO DECIDE TO COMPETE A SYSTEM THAT IS PERFORMING AS WELL AS THE PE CAMERA. THERE ARE, HOWEVER, TWO DISTINCT ADVANTAGES OF COMPETITION. FIRST, OF COURSE, IS THE SUBSTANTIAL COST SAVINGS WHICH MIGHT BE REALIZED EVEN IF PERKIN ELMER WINS THE COMPETITION. SECOND, THE ITEK DESIGN HAS SMALL, BUT IMPORTANT TECHNICAL ADVANTAGES. THE INCREASED OPTICAL BAR DIAMETER WILL PERMIT US TO OPERATE AT A HIGHER ALTITUDE WHICH REDUCES THE ORBIT ADJUST REQUIREMENTS, FILM

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REVERSAL IS NOT REQUIRED EVEN IN THE FINE FILM PATH, AND THE REDUCED COMPLEXITY IS BOUND TO HAVE A PAYOFF. FOR THESE REASONS, I RECOMMEND THE ITEK COMPETITIVE CAMERA STUDY BE REINSTATED AT THE FUNDING LEVEL OF PARAGRAPH 4 ABOVE.

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