

Hutchinson

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 DE RUXQAA 522 0662141
 ZNY XXXXX KKK ZNM
 P 072140Z
 ET
 XXXXX
 CATOR 245
 CATOR PASS CHARGE

SNB 854/4

AA 1984/4

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HANDLE VIA BYEMAN

CONTROL SYSTEM

File
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 A 6 b

~~SECRET~~ 072140Z MAR 75 CITE WHIG 0370.

PRIORITY CHARGE.

HEXAGON

HANDLE VIA BYEMAN CONTROL CHANNELS ONLY

CHARGE FOR MAJ GEN BRADBURN/COL ANDERSON FROM COL WHEELER

SUBJECT: PLANNING FOR BLOCK IV HEXAGON: HARDWARE CAPABILITIES

REFERENCE: WHIG 0331, 282003Z FEB 75

PLANNING FOR HEXAGON BLOCK IV SHOULD ASSUME THE SAME

HARDWARE CAPABILITIES AS SV-18, WITH THE FOLLOWING EXCEPTIONS.

A. IMAGE QUALITY AND OBLIQUITY CUT OFF. THE GENERAL MINIMUM QUALITY REQUIREMENT WILL BE A NIIRS 4, CURRENTLY UNDERSTOOD TO RELATE TO A GRD OF FROM THREE TO SIX FEET. ROUTINE AREA COLLECTION AT SCAN ANGLES GREATER THAN PLUS OR MINUS 45 DEGREES IS NOT DESIRED UNLESS THE PROBABILITY

PAGE 2 WHIG 0370 ~~SECRET~~

OF THE IMAGE BEING RATED A NIIRS 4 IS GREATER THAN APPROXIMATELY 2.7. SCAN WIDTHS GREATER THAN 90 DEGREES ARE NOT REQUIRED. THERE IS A DESIRE FOR A SCAN CENTER CAPABILITY WHICH WILL ALLOW PHOTOGRAPHY AT MAXIMUM SCAN ANGLES OF PLUS OR MINUS 60 DEGREES TO MAXIMIZE ACCESSES FOR SPECIAL CASES.

B. OPERATIONAL FLEXIBILITY.

(1) THE ABILITY TO VARY SCAN CENTER AND SCAN WIDTH DURING AN OPERATION SHOULD BE COSTED AS AN OPTION.

(2) THE ABILITY TO CHANGE MODE (STEREO OR MONO) DURING AN OPERATION SHOULD BE COSTED AS AN OPTION.

(3) THE ABILITY TO CHANGE MODE (STEREO OR MONO) BETWEEN NESTED OPERATIONS SHOULD BE INCLUDED UNLESS THERE IS A SIGNIFICANT COST IMPACT, REQUIRING IT TO BE COSTED AS AN OPTION.

(4) THERE IS A DESIRE FOR A 15 DEGREE SCAN MODE.

C. COLLECTION REQUIREMENTS. FOR SOME TIME COMPLEX HAS BEEN ACCOUNTING AT THE 3 NM X 3 NM CELL LEVEL. COMPLEX IS

DISTRIBUTION		
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SAFUS		
DD		
SS-1		✓
SS-2		✓
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SS-4		
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SS-7		✓
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SC 176		✓
RF-11		
FILE		

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IN THE PROCESS OF GROUPING THESE CELLS INTO EIGHT PERIODICITIES. PRELIMINARY DATA IS NOW AVAILABLE AND WILL BE PROVIDED FOR YOUR STUDY.

PAGE 3 WHIG 0370-~~SECRET~~

D. SOFTWARE. HARDWARE CHANGES WHICH AFFECT SYSTEM MODELING IN THE MISSION PLANNING (EAST COAST) SOFTWARE SHOULD BE IDENTIFIED. CHANGES TO THE OPERATIONAL (WEST COAST) SOFTWARE SHOULD BE COSTED.

E. FILM SUPPLY AND FILM MANAGEMENT. CHANGES IN LINE WITH CURRENT EVOLUTIONARY EFFORTS TO MAXIMIZE FILM AVAILABLE FOR EXPOSURE AGAINST REQUIREMENTS SHOULD BE INCLUDED.

F. ORBIT LIFE. ORBIT LIFE SHOULD BE 120 DAYS OR GREATER, AT ORBIT ALTITUDES COMPENSURATE WITH IMAGE QUALITY REQUIREMENTS. SIGNIFICANT COST BREAK POINT SHOULD BE IDENTIFIED.

G. MAPPING. THE MAPPING CAMERA SYSTEM SHOULD BE OMITTED. A METRIC PAN SYSTEM AS DEFINED BY THE METRIC PAN STUDY SHOULD BE INCLUDED AS A SEPARATE OPTION.

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