Approved For Release 2000/08/31; CIA-RDP78B04767A000300050009-3

25X1A

Attachment to

CURRENT PLANS FOR SYSTEMS CAPABILITY EFFORT

2 MAY 1968

Approved For Release 2000/08/31 : CIA-RDP78B04767A 00300050009-3

SECRET/SPECIAL HANDLING

FLIGHT	TEST	DESCRIPTION	
CR-1	FILTER EXPOSURE 21, 23A, 25 1-1/3 STOP RANGE; D COMPARISON		
CR-2	EISPECTRAL POLARIZER SO-230	W/25 + SF-05 POLOCOAT, 20 ANGLE	
CR-3	BISGECTRAL WIDE BAND FILTER SC-380	W/25 + SF-05, CPERATIONAL WRATTEN NO. 12 ULTRA THIN BASE FILM	
CR-4	SO-180 COLOR INFRARED FILM NIGHT		
OR	SO-180 BISPECTRAL	COLOR INFRARED FILM W/25 + SF-05	
CR-5	SO-121	EKTACHROME COLOR .	

SECRET/SPECIAL HANDLING

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1. FILTER EVALUATION

- OPERATIONAL PHOTOGRAPHY WITH THE WRATTEN NO. 12, 21, 23A, AND 25 FILTERS
 - A. SUBJECTIVE EVALUATION
 - B. MTF ANALYSIS OF IMAGE QUALITY
 - C. TRADEOFF BETWEEN EXPOSURE TIME AND ATMOSPHERICS

2. EXPOSURE ANALYSIS

- . BASIC OBJECTIVE: DETERMINE:
 - 1. IF SLIT CHANGED PROPERLY
 - 2. IF WE EXPOSE PROPERLY
 - 3. COMPARISON BETWEEN TARGETS
 AND TERRAIN DENSITIES
 - A. SUBJECTIVE EVALUATION
 - B. DENSITY VERSÚS FREQUENCY ANALYSIS
 - C. EMPOSURE ANALYSIS WITH HIGH PRIORITY TARGETS
 - D. COMPARISON OF TARGETS AND TERRAIN DENSITIES

3. BISPECTRAL PHOTOGRAPHY

- BASIC CBJECTIVE: TEST THE OPERATIONAL FEASIBILITY OF OBTAINING BISPECTRAL PHOTOGRAPHY FROM MISSION PHOTOGRAPHY
 - A. SUBJECTIVE ANALYSIS OF TARGETS WITH RESPECT TO TONAL DIFFERENCES, (NPIC)
 - B. OBTAIN GOOD BISPECTRAL PRINTS
 - C. IMAGE QUALITY ANALYSIS OF SF-05 IMAGERY
 - D. TEST BEST METHOD OF OBTAINING BISPECTRAL IMAGES

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4. POLARIZER FILTER

- BASIC OBJECTIVE: DETERMINE THE EFFECTIVENESS OF A POLARIZER AS A HAZE-CUTTING FILTER
 - A. IMAGE QUALITY ANALYSIS
 - B. ATMOSPHERIC EFFECTS AS A FUNCTION OF SOLAR ALTITUDE AND AZIMUTH.
 - C. DETERMINE EFFECTIVE FILTER FACTOR
 - D. SUBJECTIVE ANALYSIS OF TONAL RENDITION

5. SO-230

- BASIC OBJECTIVE: COMPARE SO-230 WITH 3404 IN ANOPERATIONAL MISSION
 - A. FILM SENSITOMETRIC CHARACTERISTICS (FOG, GAMMA, SPEED, FILTER FACTORS)
 - B. FILM IMAGE QUALITY ANALYSIS (MTF, RESCLUTION)
 - C. SUBJECTIVE EVALUATION OF FLIGHT FILM
 - D. SYSTEM RESOLUTION
 - E. TONE REPRODUCTION COMPARISON

6. SO-380

- . BASIC OBJECTIVE: TEST SO-380 IN THE SYSTEM
 - A. FILM SENSITOMETRIC CHARACTERISTICS (FOG, GAMMA, SPEED, FILTER FACTORS)
 - B. FILM IMAGE QUALITY ANALYSIS (MTF, RESOLUTION)
 - C. SUBJECTIVE EVALUATION OF FLIGHT FILM
 - D. SYSTEM RESOLUTION (MTF/AIM)
 - E. LAB CHAMBER TESTS
 - F. LIMITED DIMENSIONAL STABILITY ANALYSIS

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- 7. SO-180
 - BASIC OBJECTIVE: OBTAIN MISSION PHOTOGRAPHY WITH CAMOUFLAGE COLOR FILM
 - A. SUBJECTIVE ANALYSIS OF INFORMATION CONTENT
 - B. TONE REPRODUCTION ANALYSIS
 - C. RELATIVE IMAGE QUALITY (RESCLUTION, MICROPHOTOGRAPHS)
- 8. NIGHT PHOTOGRAPHY
 - BASIC OBJECTIVE: DETERMINE IF ACTIVITY CAN BE DETECTED AT NIGHT
 - A. SUBJECTIVE ANALYSIS
 - B. STATIC ANALYSIS
 - C. THEORETICAL ANALYSIS OF NIGHT DETECTION CAPABILITY

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Note:	It is planned that the next two CR missions will have substantial amounts of color film (IR film SO-180 in CR-4 and Ektachrome SO-121 in CR-5)
	1 <u>4 MAY 1968</u> (DATE)
FORM NO. 101 REP 1 AUG 54 101 WHI	LACES FORM 10-101 CH MAY BE USED.