

DISCUSSED WITH [REDACTED]

FUNCTION	DATA FLOW	OPERATION TIME	AVAILABILITY OF EQUIPMENT	REMARKS
TARGET FORMAT SELECTION ①	<p>FORE BI-COLOR O.N. OR D.N. 100//mm +</p>			
RECTIFICATION ②	<p>GAMMA I - TRAN PRINTER RECTIFIES & EN OUTPUT D.P. ON APPROX. 50</p>	<p>5 MIN. FOR SETUP & SCAN (10 MIN. FOR 2) PLUS PROCESSING</p>	<p>14 UNITS IN OPERATION - ACIC - AMS - NRTSC - OTHER</p>	<p>50//mm ON OUTPUT NEAR CEN SCAN</p>
ENLARGE ③	<p>ENL. AREA CHIP</p>		<p>EK.-10-10-40 OR EQUIV.</p>	
TARGET STEREO CHIPS PREP. ④	<p>FORE BI-COLOR D.P. CHIP 6" IN FLT. 9" CR. FLT.</p> <p>STEREO PAIR</p>			
STEREO MODEL SET-UP & PROFILING OF 3D MODEL ⑤	<p>STEREO PLOTTER PROFILES FOR RELIEF CORR</p> <p>ZEISS C-8 MANUAL</p> <p>WILD A-7, A-8</p> <p>AS-11C AUTO</p> <p>UAMCE</p>	<p>2.5-3 HRS.</p> <p>1.5-2 HRS.</p>	<p>MANUAL - AMS ACIC USGS ETL ETC.</p> <p>AUTO AS-11C (ACIC) UAMCE (AMS)</p>	<p>IF USI AUTO OMIT STEP</p>
PROFILE STORAGE ⑥	<p>INPUT X, Y, Z DATA TO ZEISS SG-1 STORAGE UNIT</p> <p>PROFILE OUTPUT</p>		<p>1- ACIC 1- ETL 3- AMS</p>	
ORTHO-PHOTO PRINTING ⑦	<p>INPUT: PROFILE DATA & BI-COLOR CHIPS</p> <p>ZEISS GZ-1 ORTHOPROJECTOR 4X ENL.</p>	<p>1.5-2 HRS.</p>	<p>1- ACIC 1- ETL 1- AMS * * 2nd ON ORDER</p>	
FORMING COLOR RECORD ⑧	<p>FORE 24"x36" SUPER-IMPOSE COLOR 24"x36" 100//mm</p> <p>D.N. ORTHO-PRINT</p> <p>AFT 24"x36" BI-COLOR D.N. PRINT</p>			<p>COLOR PRI 8 X OR</p>

SECRET/SPECIAL HANDLING

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Attachment 2 to [REDACTED] 25X1A
[REDACTED] 7387-68

CURRENT PLANS FOR SYSTEMS CAPABILITY EFFORT

10 JUNE 1968

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SECRET/SPECIAL HANDLING [REDACTED]

25X1A

SECRET/SPECIAL HANDLING

<u>FLIGHT</u>	<u>TEST</u>	<u>DESCRIPTION</u>
CR-1	FILTER	21, 23A, 25 1-1/3 STOP RANGE; DENSITY COMPARISON
CR-2	BI-SPECTRAL POLARIZER SO-230	W/25 + SF-05 POLOCOAT, 20° ANGLE
CR-3	BI-SPECTRAL WIDE BAND FILTER SO-380	W/25 + SF-05, OPERATIONAL WRATTEN No. 12 ULTRA THIN BASE FILM
CR-4	SO-180 BI-SPECTRAL	COLOR INFRARED FILM W-25 _ SF-05
CR-5	SO-121	EKTACHROME COLOR

SECRET/SPECIAL HANDLING

SECRET/SPECIAL HANDLING

1. FILTER EVALUATION

- BASIC OBJECTIVE: SEE WHAT DIFFERENCES OCCUR IN 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 VERSUS FREQUENCY ANALYSIS
 - C. EXPOSURE ANALYSIS WITH HIGH PRIORITY TARGETS
 - D. COMPARISON OF TARGETS AND TERRAIN DENSITIES

3. BISPECTRAL PHOTOGRAPHY

- BASIC OBJECTIVE: 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

SECRET/SPECIAL HANDLING

SECRET/SPECIAL HANDLING

4. POLARIZER FILTER

- o 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

- o BASIC OBJECTIVE: COMPARE SO-230 WITH 3404 IN AN OPERATIONAL MISSION
- 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
- E. TONE REPRODUCTION COMPARISON

6. SO-380

- o 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

SECRET/SPECIAL HANDLING

7. SO-180

- o BASIC OBJECTIVE: DETERMINE MISSION PHOTOGRAPHY WITH CAMOUFLAGE COLOR FILM
- A. SUBJECTIVE ANALYSIS OF INFORMATION CONTENT
- B. TONE REPRODUCTION ANALYSIS
- C. RELATIVE IMAGE QUALITY (RESOLUTION, MICROPHOTOGRAPHS)

8. NIGHT PHOTOGRAPHY

- o BASIC OBJECTIVE: DETERMINE IF ACTIVITY CAN BE DETECTED AT NIGHT
- A. SUBJECTIVE ANALYSIS
- B. STATIC ANALYSIS
- C. THEORETICAL ANALYSIS OF NIGHT DETECTION CAPABILITY

SECRET//SPECIAL HANDLING