PHOTOGRAPHIC REQUISITION

GROUP TSSG	DIV APSD	BR JEG	SECT IL	REQUESTERS NO	
PRIORITY:	PROJECT NO: 451054			PSB NO	
DATE RECEIVED IN PHOTO			FOR: BRIEFING BOARD	ROOM NO: 2N414	
DATE SUBMITTED: 19 MARCH	ORDERED BY:		25X1A	DATE REQUIRED: 26 MAR	

TYPE	MATERIALS	NO. ORIGINALS	NO. COPIES EACH	TOTAL
CONTACT	GLOSSY PAPER			
	SEMI GLOSS PAPER			
	MATT PAPER			
	FILM POSITIVE			
	FILM NEGATIVE			
ENLARGEMENTS	GLOSSY PAPER			
	SEMI GLOSS PAPER	3	5	15
	MATT PAPER			
	FILM POSITIVE			
	FILM NEGATIVE			
COPY CAMERA	NEGATIVE			
	POSITIVE			
	OTHER			
PROCESSING	FILM			
	POSITIVE			

CLASSIFICATION: NONE

REMARKS AND/OR INSTRUCTIONS: MAKE APPROX. 15X ENLARGEMENTS OF 3 FRAMES IDENTIFIED 002, 027, 102

(IF IMAGE FALLS APART MAKE MAX. ENLARGEMENT (INCLUDE ENTIRE FRAME FORMAT)

TO BE FILLED IN BY LAB PERSONNEL ONLY

OPERATION	DATE	HOURS	OPERATOR	OPERATION	DATE	HOURS	OPERATOR	OPERATION	DATE	HOURS	OPERATOR
LAB PREP				LAB PREP				LAB PREP			
PRINTING				PRINTING				PRINTING			
PROCESSING				PROCESSING				PROCESSING			
DRYING				DRYING				DRYING			
ASSEMBLY				ASSEMBLY				ASSEMBLY			

MATERIAL USED - TO BE FILLED IN BY LAB PERSONNEL ONLY

FILM	PAPER	TYPE	SIZE	EXP	AMOUNT REQUIRED	AMOUNT USED

ITEM	CONTROL NO	MISSION NO	PASS NO	FRAME OR INDEX	GRID COORDINATE	MAG	LAB USE ONLY	REMARKS
					X- Y-		X- Y-	

TSSG/APSD/IEB-060/69
24 March 1969

MEMORANDUM FOR: Deputy Director, National Photographic Interpretation Center

THROUGH: Chief, Technical Services & Support Group, NPIC
Chief, Applied Photo Science Division, TSSG/NPIC

SUBJECT: Report on the Photographic Products from Apollo IX

1. The photographic products from Apollo IX include 2,400 feet of 16mm color film of interior, exterior and limited amounts of earth photography. These movies are of little technical/intelligence value to the Intelligence Community but are being edited to provide an interesting 25/30 minute movie of the activities of the astronauts.

2. A fixed, vertical multi-sensor camera array provides 400/500 separate views of earth with varying amounts of overlap. Most of the

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scenes are domestic from an equatorial track from

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is 50/75 percent cloud

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covered. The camera array provides 70mm (2.25 x 2.25 inch) frames acquired through four bore-sighted three inch lenses that carried the following emulsion/filter combinations:

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This is the first time we have had simultaneous multi-sensor acquisitions from space and although the resolution is never better than 120/150 feet, the gross land features and shore lines provide interesting information as to the capabilities of the various emulsions and filter/emulsion combinations (i.e., SO-180 and 3400; Black/White, Infrared and SO-180; etc.). They provide depth perception and could excite some interest within the Community. The red and green filters used with the Type 3400 in bore-sighted framing cameras could provide bicolor. Some of the areas photographed with the multi-sensor camera

TSSG/APSD/IEB-060/69

SUBJECT: Report on the Photographic Products from Apollo IX

array were also photographed with a hand held 70mm Mauer camera containing Aerial Ektachrome. This could be used to compare color fidelity to bicolor fidelity.

3. There are approximately 360 frames of hand held, 70mm, Mauer, color photography. Aerial Ektachrome was used instead of the "conventional" SO-121 color and it does provide very acceptable color renditions, especially in the close-up photography of the astronauts, the lunar module, the Apollo Space Craft and the various tests conducted. Approximately 50 of these frames have been combined into eight viewgraphs that will be available in a couple of days. The remainder of the reproduction received will be retained in the NPIC files for reference.

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4. [redacted] part of the screening team at Houston, expressed a desire to borrow the movies, the viewgraphs and a briefer for a showing at their respective areas when the material is available. [redacted] (NASA, Washington) has borrowed a few frames from the multi-sensor camera array for a briefing at his headquarters. [redacted] (NASA, Houston) also borrowed a few frames of the Ektachrome CD (SO-180) to show [redacted]

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5. The material acquired during Apollo IX will be available to IEG to decide if the various emulsion combinations warrant an extensive study to determine their intelligence value on 24 March. Existing projects will cover the "first-look analysis" which should take less than a day. If an extensive study is deemed necessary an additional project or a split project may have to be provided.

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6. [redacted] Division Chief of the Photographic Facilities at the Missile Space Center, Houston, our host during the screening, expects to visit NPIC between 1300-1600 on Monday, 24 March. [redacted] (NASA, Washington) is arranging for [redacted] visit and is aware of the credentials required.

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[redacted]

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SUBJECT: Report on the Photographic Products from Apollo IX

Distribution:
Orig - Dep Dir, NPIC
1 - NPIC/TSSG/APSD - chrono 3/69
1 - NPIC/TSSG/APSD - 451054
1 - NPIC/TSSG
1 - NPIC/PPBS/RAD

NPIC/TSSG/APSD/IEB: [redacted]

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