137312/BAN028 Approved for Release: 2025/06/18	C05137312 ####################################
MEMINUAA KUNDAAG	14-00064939D
DE RUXOBA 656 3242334	
P 2023307	
ST .	
XXXXX	
GJARO 230, D27, CALLMET 178, 638	
GUARD PASS WHIG. WAHOO	
CALINET PASS	" OFFICE
a la	- 11 17111 I
all-t. 4	PARTY PARA
	BARDLE VIA ES YE WARN
130 lesson	ACCUSED TO ACCUSED OF THE PARTY
SECRET 2023302 NOV TA CITE CHARGE 9039.	CONTROL SYSTEM
PRIORITY WHIS, WAHOO,	
HANDLE VIA BYÉNAN CONTROL SYSTEM	
HEXAGON	
FORE WHICH HUTCHISONS WARDO	
FROM	
SUBJECT: HEXAGON PHOTO QUALITY DEGRADATION STUDY	
1. MANY ASPECTS OF THE PHOTO QUALITY PROBLEM HAVE	BEEN
ADDRESSED IN THE PAST, BUT THE ATMOSPHERIC FACTORS	

SUBJECT: HEXAGON PHOTO QUALITY DEGRADATION STUDY.

1. MANY ASPECTS OF THE PHOTO QUALITY PROBLEM HAVE BEEN ADDRESSED IN THE PAST, BUT THE ATMOSPHERIC FACTORS HAVE RECEIVED LIMITED DETAILED ATTEMION, AUTHOUGH HAZE HAS BEEN TAGGED REPEATEDLY AS BEING THE SEVERE QUALITY DEGRADER, STUDIES HAVE SHOWN THAT CIRRUS CLOUDS WERE THE MOST PROBABLE DEGRADER OF THE IMAGES TAGGED WITH THE

PAGE 2 CHARGE 9039 S E C R E T
HAZE LABEL. IN OTHER INSTANCES THERE WAS NO APPARENT
METER OLOGICAL JUSTIFICATION FOR THE HAZE LABEL. KNCHARGE
IS INITIATING AN EXTENSIVE STUDY TO DETERMINE WHAT
ATMOSPHERIC FACTORS AFFECT PHOTO QUALITY AND TO WHAT EXTENT
EACH CONTRIBUTES TO QUALITY DEGRADATION. IN ADDITION, STUDY
RESULTS SHOULD BE SUFFICIENT TO EITHER SUPPORT OR REFUTE
THE GROWING INTEREST IN DEVELOPING OPERATIONAL HAZE AND
CIRRUS PREDICTION CAPABILITIES.
2. BRIEFLY, THE STUDY APPROACH IS AS FOLLOWS:

A. A DATA BASE WILL BE GENERATED WHICH CONTAINS OAK AND SUPPLEMENT TARGETS FROM HEXAGON MISSION'S 1207 AND 1208.

B. THE DATA BASE WILL BE TRANSMITTED TO TO OBTAIN ACTUAL WEATHER OBSERVATIONS FOR EACH TARGET AT THE TIME OF ACQUISITION IN THEIR RESPECTIVE MISSIONS. WEATHER PARAMETERS TO BE CONSIDERED AS POSSIBLE DEGRADERS WILL BE IDENTIFIED BY KNW ITCH.

C. THE DATA BASE WILL THEN BE RETURNED TO KUCHARGE FOR PARAMETRIC ANALYSIS OF THE RELATIONSHIPS BETWEEN WEATHER PARAMETERS, PI READOUT LABELS, AND NIRS RATINGS, ANALYSIS WILL BE CONDUCTED IN ACCORDANCE WITH A MUTUALLY AGREEABLE PLAN BETWEEN AND KWCHARGE.

SEGNET MARE VIA BYEMAN BONTON SYSTEM

SF: HU

AGE 3 CHARGE 9039 SECRET

3. PROJECTED COMPLETION DATES ARE AS FOLLOWS:

A. BUILD BASIC DATA BASE BY 15 DEC 74

B. INTEGRATE WEATHER BY 15 JAN 75.

C. ANALYSIS COMPLETED BY 1 FEB 74.

D. STUDY REPORT PURLISHED BY 15 FEB 75.

4. FOR REQUEST A STATEMENT OF CAPABILITY TO
SUPPORT THE STUDY BY PROVIDING THE APPROPRIATE WEATHER DATA
ON THE PROPOSED SCHEDULE.

5. FOR REQUEST A STATEMENT OF CAPABILITY TO
PROVIDE THE DATA BASE DESCRIBED IN PARA 3. A. TO INCLUDE THE
FOLLOWING: TARGET 10. LOCATION, ALTITUDE, SUN ANGLE, ZULU
TIME OF ACQUISITION, ACQUISITION DATE, OBLIQUITY, REV, FRAME,
OP MUMBER, PI READOUT CODES, AND MIRS RATINGS.
6. THIS STUDY IS NOT TO PRECLUDE THE EFFORT TO INSTRUMENT
CORN CREWS TO OBTAIN REAL TIME ATMOSPHERIC DATA IN CONJUNCTION
WITH ON-ORBIT R AND D OPERATIONS.
E-2 IMPORT

SECRETBANDLE VIA BYEMAN
CONTROL SYSTEM

MNNN 2 10233

ZCZCXQA878SABA90 PP RUXQAA DE RUXQSA AN9 3250016 ZNY

X

X

X

X

X

SECRET
HANDLE VIA BYEMAN
CONTROL SYSTEM

Approved for Release: 2025/06/18 C05137312