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CLASSIFIED MESSAGE

DATE 1743Z 21 MAR 66

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**PRIORITY**

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TO : DIRECTOR

FROM : [ ]

SUBJECT

INFO

TOR: [ ] 21 MAR 66

OSA-20

IN 94837 (b)(1)

PRIORITY ADIC (b)(1)  
IDEALIST LOGS (b)(3)

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IMAGE INTENSIFIER EVALUATION

1. KWGLITTERS KUZIELS, GAZZOLA AND OPPERUD WERE CHOSEN TO CONDUCT A PRELIMINARY EVALUATION OF THE DRIFT SIGHT IMAGE INTENSIFIER. THE P2V TEST BED AIRCRAFT WAS AIRBORNE AT 1000Z 17 MAR UNDER CLEAR SKIES. THE FLIGHT WAS PLANNED IN SUCH A MANNER TO EXPERIMENT WITH VARIOUS PHASES OF DARKNESS. THIS INCLUDED 2 HOURS WITHOUT MOONLIGHT, 1 1/2 HOURS WITH A QUARTER MOON, AND FINALLY, DAWN.

2. ALL KWGLITTERS AGREED THAT THEY WERE HESITANT TO MAKE ANY FIRM COMMITMENTS BECAUSE OF THE LOW ALTITUDE (10M TO 12M) OF THE FLIGHT. THE EQUIPMENT SHOULD BE FLOWN IN THE ARTICLE FOR SEVERAL FLIGHTS IN ORDER TO GIVE A MORE REALISTIC PRESENTATION.

3. IN VIEW OF THE ABOVE, THE FOLLOWING OBSERVATIONS AND RECOMMENDATIONS ARE SUBMITTED:

A. EYE STRAIN WAS VERY PREVALENT, CAUSED MOSTLY BY THE NARROW CONE OF IMAGE PRESENTATION. ANOTHER CONTRIBUTING FACTOR

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GROUP 1  
EXCLUDED FROM AUTOMATIC  
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~~SOME~~ INTENSITY OF LIGHTS FROM POPULATED AREAS.

B. SHOULD HAVE A DIMMER CAPABILITY - POSSIBLY A RHEOSTAT OR FILTER.

C. WOULD PREFER BEING ABLE TO LOOK AT IMAGE WITH BOTH EYES, AS THROUGH BINOCULARS, INSTEAD OF WITH ONLY ONE EYE. A DETACHABLE UNIT MIGHT BE DEvised FOR THIS PURPOSE.

D. PREFER TO KEEP .4 MAGNIFICATION AS OUR PRESENT SIGHT RATHER THAN 1.5 AS PROGRAMMED.

E. RESISTANCE FROM GROUND LIGHT SOURCES SHOULD BE SHORTENED. BECAUSE OF THIS, STRAY LIGHTS FROM AUTOMOBILES OR OTHER MOVING OBJECTS TEND TO MAKE IDENTIFIED FEATURES DISAPPEAR.

F. BECAUSE OF THE QUARTER MOON, THERE WAS INSUFFICIENT MOON-LIGHT. RECOMMEND FUTURE TESTS BE CONDUCTED IN ARTICLE DURING CONDITIONS OF CLEAR SKIES AND FULL MOON. THIS WOULD BE ABOUT 4 APRIL.

G. FINALLY, DO NOT FEEL THAT NAVIGATION ON A DARK NIGHT COULD BE ACCOMPLISHED SUCCESSFULLY WITH THIS AS THE SOLE INSTRUMENT. TERRAIN FEATURES AND MAN-MADE OBJECTS ARE EXTREMELY DIFFICULT TO IDENTIFY.

END OF MESSAGE