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DRAFT

NPIC/P&DS/D/6-___ 1 June 1966

MEMORANDUM FOR THE RECORD	
SUBJECT: Visit to Research Center Regarding Task #2.	25 X 1
1. On 18 May the undersigned visited	25X1
for the purpose of observing progress on the	25X1
Photobleach Photography Contract and to discuss plans for a follow-on	
effort for FY-1967.	
2. Several laboratory experiments were observed: one concerning	
a new film formulation that is blue in appearance, seems to band well	
to a mylar base, and exhibits fairly good density characteristics.	
The obtained sample has a D-maximum of about 1.25 with a reasonably	
low fog density. Observation of a density step wedge through a blue	
filter (for color equilization) beside the sample film appears to	
reproduce about 8 steps of the 21 step density wedge.	25 X 1
preparing some density step wedge exposures of this material to be	
included with a proposal for follow-on FY-1967 effort. Another of the	
characteristics of this material demonstrated in the laboratory was	
resolution. A resolution target was exposed and projection printed on	
paper through a microscope. The projected print showed a resolution	
capability in excess of 200 lines/mm; but because of the reproduction	
and reading methods involved in the experiment, the ultimate resolution	
could not be determined at this time. NPIC will receive samples of	
exposed resolution targets at a later date. One unsolved problem of	
this material is a method for retaining the image. Heat treatment will	

Excluded from antiquality foregrating and fectaminisation

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allow retention for a few days under normal room lighting or for viewing with low light projectors, but intense light will cause it to bleach out. Further experiments are to be conducted in an effort to solve this knix problem. A stripping overcoat on the film to remove the chemical responsible for the bleaching may be required. The material can be exposed in a few seconds using a standard 300 watt projection lamp. The material shows promise and should be further investigated.

3. The parameters concerning a proposal for an FY-1967 effort were discussed. In general the criteria will be as previously reported in the NPIC memorandum of 8 February 1966, regarding a conference held to determine interim objectives, that is, a D-maximum of 2.0, a D-minimum of 0.10; a density range of 11 steps of the standard 21 step density wedge; a resolution of 200 lines/mm; and exposure time not to exceed 30 seconds. In has been found that exposure (bleaching) is effected by temperature. This phenomenon may be useful in controlling gamma or contrast. A proposal for continuation of this effort in FY-1967 should be here about 15 June 1966.

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