

P&DS/DB TYPING SLIP

*Record**

Title Memorandum of Understanding

Classification Conf Project No. 997073

Originator: Date 03 FEB 1966

1 Chief (ISS) (SSS) Initials Jee Date 03 FEB 1966
(EPS)

2 Type Rough → Date 8 Feb

3 Originator Initials _____ Date _____
(for checking)

4 Chief (ISS) (SSS) Initials PM Date 6 Feb
(EPS)

Deputy Chief, DB Initials _____ Date _____

Chief, DB Initials _____ Date _____

Asst for P&DS Initials _____ Date 17 Feb

5 Type Smooth 17 Feb.

Date of Final Disposition _____

Originator _____

Section Chief _____

Return slip to show item has left DB.

25X1

Declass Review by NGA.

CONFIDENTIAL

DRAFT
NPIC/P&DS/D/6-799
8 February 1966

MEMORANDUM FOR THE RECORD

SUBJECT: Contract [redacted]

1. In conference 28 January 1966 between [redacted]

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[redacted]

[redacted] of this office, it was agreed that the following would be the immediate or interim objectives of this project; that the long range objectives would remain as stated in the contract, but effort for the current contract period would be concentrated on attaining the below stated interim goals:

a. A neutral gray flexible film of 4x5 inch sheet size having a D maximum of 2.0 density and a D minimum of 0.10. The minimum density to be nearly uniform across the visible *SPECTRUM*.

b. High contrast resolution to be 200 line pairs per mm.

c. Latitude to include at least eleven steps of a twenty-one ^{step} step gray scale tablet.

d. Speed or sensitivity of the material to light to be such that a fully exposed target may be obtained in not more than 30 seconds with a maximum power of not more than 1100 watts, preferably approaching the ultra-violet end of ~~xxxx~~ the spectrum.

e. Contrast control should be the equivalent of photographic gamma of 1.0 to 2.0

f. Storage - It is desirable that the material have the capability of one years storage prior to exposure and at least six months storage after exposure and fixing without undue loss of image.

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GROUP 1
Excluded from automatic
downgrading and
declassification

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- g. Fixing time should be as short as possible but not over one minute.
- h. The image should suffer no appreciable degradation during normal methods of use such as in viewers and by projection.

[Redacted]

Contract Monitor

25X

Distribution:

- Original - Project File/DB (#997073)
- 1 - Chrono/DB

clc

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7 December 1965

MEMORANDUM FOR THE RECORD:

SUBJECT: [REDACTED]

1. On 1 December 1965 the undersigned and [REDACTED] of this office visited [REDACTED] for the purpose of reviewing the history and progress on Project No. 997073 - Non-reversible Color Recording Study - Contract [REDACTED] was represented by [REDACTED] Contract Administrator; [REDACTED] [REDACTED] Contact was also made with [REDACTED] who did not attend the technical discussions.

2. The terminology (Phase II) used to identify this portion of the program is a misnomer, this is really an extension of the applied research carried out under the previous contract [REDACTED] and is not intended to include the development of an operational product. Much of the effort under this new contract has been concentrated on increasing the speed of ~~sensitivity~~ sensitivity of the material, and it now appears that the introduction of a chemical chain-reaction may indeed be possible; but, to date the relative ASA speed is still in the order of 10^{-2} or 10^{-4} , with quantum efficiencies of considerable less than one. It further appears that the attainment of high densities in this material will only be attained at a sacrifice in minimum density. There is little or no effort being applied to the other development objectives, such as density, "gamma" or resolution because these will be effected by changes in formulation to obtain an increase in speed or sensitivity. Depending upon the ultimate use of the developed product this may not be the proper approach.

3. The existing objectives call for a D maximum of 30 and D minimum of 0.05 and a speed of ASA 0.1. Although the development is far from these goals it has progressed to the point where it could well be used to meet some of our rapid access print requirements. This aspect of possible immediate use of the material through relaxing some of the technical requirements was discussed to a considerable degree with [redacted] and they indicated they would be happy to visit with us in Washington to further pursue this approach.

4. Recommendations:

a. A staff conference should be held to review the technical objectives of this development with the idea in mind that, for some applications, it may be possible to relax some of the requirements.

If this appears logical, a meeting should then be held with [redacted] [redacted] to firm up new criteria to obtain a practical utilization of this product at the earliest possible time. Perhaps with long range research for the more difficult aspects continuing on low priority.

clc

[redacted]