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NPIC/TDS/D/6-1703
9 December 1966

MEMORANDUM FOR THE RECORD

SUBJECT: Visit to [redacted]
[redacted] Task #02 - Photobleach Photo-
graphy, (Final Visit)

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1. A meeting was held at the [redacted]
[redacted] on 10 November 1966
to review the progress on the Photobleach Program. [redacted] was re-
presented by [redacted]
[redacted]
[redacted] was also present for most of the
discussions.

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2. The contractor had, previous to this meeting, received official notification from the Government that this effort would be terminated with the expiration of the current task on 30 November 1966. There was considerable discussion regarding the reasons for the termination, after having spent a two year effort in a field that [redacted] had understood would be a long range research effort. I explained that there had been changes in organization, policies, and in economic pressures, plus the fact that progress on the project had not been as great as had been expected.

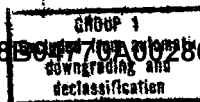
3. [redacted] who replaced [redacted] as the project manager, asked me if the termination was ir-reversable. I informed him that the decision was final; but that proposals for further study would be considered, provided significant progress justified such action.

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4. A discussion was then held on possible company sponsored efforts in this field. This action was mentioned in the letter from our contracting officer, directing termination. I explained to them that we would be willing to authorize retention by them of equipment that had been procured from Government funds for Contract [redacted] Task #2, if they would agree to furnish us information obtained from their company sponsored efforts. This will be considered

Declass Review by NGA.

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and they will advise us of their decision. In the discussion it was pointed out by the Government representative that [redacted] (DIAZO) Materials now available had photographic properties exceeding those properties shown in the photobleach method and that, should they be able to show the photobleach method to be greatly superior to the [redacted] method, their proposals for further effort on photobleach would undoubtedly be given consideration. [redacted] was not aware that [redacted] had reached this technical level and requested, that if possible, he be furnished samples of the material involved. Accordingly, the project monitor will obtain the samples for him.

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5. [redacted] was concerned that their development and findings to date had not been optimized and suggested a moderate Government sponsored effort of about [redacted] over a six month period to optimize the present system. The answer to this suggestion was that NPIC would not be interested in such a proposal because of the obvious superiority of the [redacted] material at this time.

6. Inasmuch as there is no additional time for research and development on this task, a review of the technical accomplishments on this effort was held. [redacted] was recently supplied a 70mm aerial print, a 228 line resolution target, and a 21 step gray scale. These were used to evaluate the current status of the effort and will be retained by [redacted] for use in the final report, which is due the first week of December 1966.

As reported in progress report #13 of 14 October 1966, a new alcohol soluble butyrate polymer has been obtained from [redacted] which, when combined with the new trimethylinoaliline dye, exhibits much better photographic characteristics than any other polymer dye combination. Examination of tests performed with this material shows a resolution capability of at least 204 lines per mm when exposed to a 228 line target, and it will reproduce as many as 14 steps of a 21 step gray scale. Although the resulting color of a reproduction on this material is blue, it appeared that none of the detail in the furnished aerial print had been lost. One other recent advance in this material is a coating on opaque paper. There is attached sample prints made with this coating on both mylar and paper. These are very crude coatings and in the case of paper represents the first attempt. The exposure for the film and paper was 15 and 30 seconds respectively with a 300 watt source. The material was fixed to prevent any further bleaching by heating for eight minutes at 105°C.

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7. In summary the following were agreed to:

a. NPIC will furnish samples of the [] material to [] for comparison tests.

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b. The resolution target, gray scale, and aerial print recently furnished [] by NPIC will be retained by them for use in preparing the final report on Contract [] Task #2.

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c. [] will prepare and furnish NPIC an informal list of Government owned property acquired on this project, together with recommendations, if any, on transfer of the property to another task under the same contract.

d. [] will give consideration to further effort on photobleach under in-house sponsorship, possibly including use of Government owned property and will advise NPIC.

e. [] will endeavor to obtain technical data on the [] (DIAZO) material and will prepare comparison charts showing the important parameters of photobleach and DIAZO materials and furnish copy of charts to NPIC.

[]

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Development Staff, TDS
Date

Enclosures:

Two photos

Distribution:

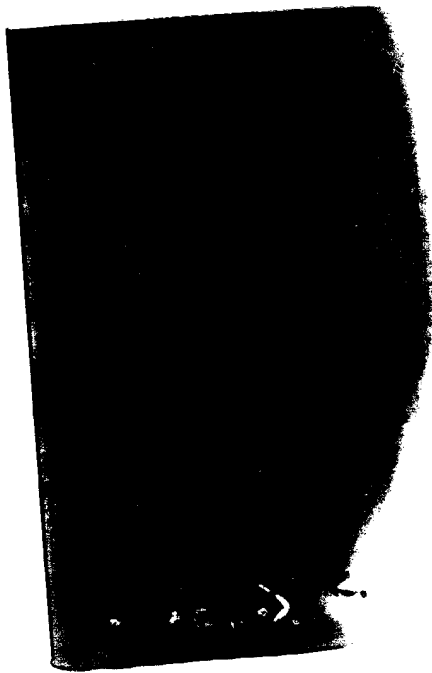
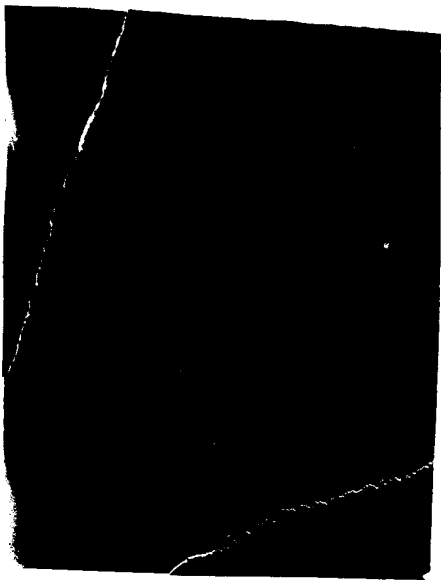
Original - Project File
1 []
2 - DS/TDS (file)

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