

31 March 1970

Dear Paul:

Here is the progress report for the past two months. The costs remaining are lower than I expected; first, because there were some labor and travel costs and second, because overhead during the first two months of the year, when we have to make fixed payments for the entire year, is extremely high. As overhead goes down during the remainder of the year, the "costs remaining" picture improves.

Best regards,

Don

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THE EFFECTS OF PHOTOGRAPHIC
GROUND RESOLUTION ON PHOTOINTERPRETATION

Progress Report No. 4, March 31, 1970

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[Redacted]

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PROGRESS

Since the last progress report, submitted on January 26, 1970, we have done the following:

1. Reviewed reports of recent studies that might be relevant to the work. As usual, practically no significant information was obtained, probably because the project is apparently almost unique, particularly in light of the methods being used and the ground resolutions being investigated.
2. During the week of 14 December 1969, the project director:
 - a) visited the sponsor's facility to discuss the project with the technical monitor;
 - b) with the technical monitor, visited [Redacted] [Redacted] to advise [Redacted] [Redacted] of our needs for simulated aerial photographs to be made from the original negatives obtained in flights over Aberdeen Proving Ground (a proposal was solicited from [Redacted] and was subsequently received in mid-January, 1970); c) reviewed with the technical monitor the idea of using the artillery pieces, as well as the tanks, at Aberdeen

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as targets in the study; consequently, the project director and [redacted]

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visited Aberdeen and selected the most appropriate artillery targets and again examined the tanks that had previously been selected as targets; d) discussed with [redacted] the research done and sponsored by the Army Behavioral Science Research Laboratory (BSRL) that might be relevant to our study. Again it appeared that the previous studies done under the contract and the current study are more sophisticated, at least as far as the imagery being used is concerned, than the BSRL work. Consequently, no significant information was obtained.

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3. During the week of 1 February 1970, the project director visited the sponsor's facility to review the project and to discuss the [redacted] proposal.

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Because of the simulation method proposed and the costs, it was concluded that an additional proposal should be obtained from Eastman-Kodak. We visited

E-K [redacted] described the simulation requirements, and requested that they submit a proposal. Their simulation techniques appeared superior to those proposed by

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[redacted] and their suggestions regarding *what* should be simulated were more realistic.

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4. On February 18, the technical monitor visited our facility in Santa Barbara and we discussed the possibility of obtaining additional coverage of other

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types of ground order-of-battle (GOB) targets. We agreed that other types of GOB targets would add validity to the study but that finding large numbers of them in a small area would be unlikely. The technical monitor agreed to examine the possibilities.

5. During the week of 23 March 1970, the project director visited the sponsor's facility and reviewed the project with the technical monitor and [redacted]

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The E-K proposal to prepare the photographic stimulus materials was discussed and the decision was made to have E-K do the work rather than [redacted]

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The technical monitor, [redacted] and the project director visited the people at E-K in the latter part of the week. We gave them the final specifications for the Aberdeen photography in terms of ground resolution and scale and also gave them the original negative. They intended to start work in preparing the photography immediately.

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PLANS

During the next reporting period, we plan to do the following:

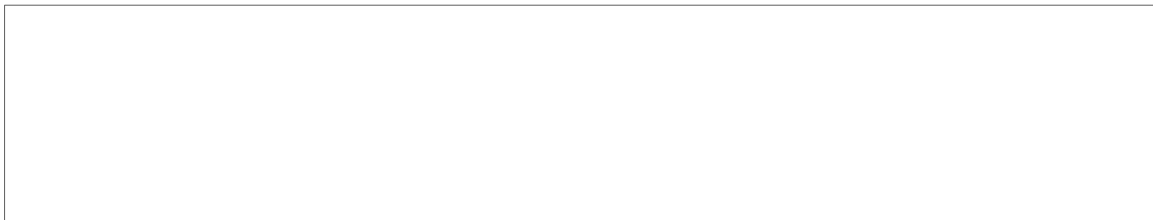
1. Select targets for an additional scene containing other types of GOB targets. It may be necessary to make a mosaic from a large number of frames because it is doubtful that enough targets can be photographed on a single frame.
2. Develop PI keys for the targets photographed at Aberdeen Proving Ground.

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3. Conduct a pilot study using the photographs prepared by E-K from the original negatives of Aberdeen. There will be six ground resolutions, each at a different scale, and approximately 20 tank and 20 artillery pieces serving as targets to be identified. The purpose of the pilot study will be to determine:
 - a) the adequacy of the instructions to the subjects and the keys;
 - b) the amount of time required to perform the task;
 - and c) the appropriate design of the main study.



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