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19 August 1965

MEMORANDUM FOR THE RECORD

REFERENCE: DIAXX-1 2996-65

SUBJECT: LONG ARM Drone Modifications

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1. [redacted] from OEL outlined on 12 August 1965 his appraisal of the modification requirements necessary to configure the LONG ARM drone in view of recent information. He said that someone from OSI had briefed JRC last Monday that it would take 30 to 45 days to modify the LONG ARM intercept package. According to [redacted] who has checked with HRB Singer, the modification can be accomplished in two weeks, and there may be a preliminary price estimate by 13 August 1965.

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2. The modification required will need the S-Band scanning receiver from System XVII. This comes about because of the recent determination that the beacon and fusing frequencies are in S-Band. He did propose to remove the C-Band elements plus two telemetry transmitters so that the drone would weigh less and consequently gain a little altitude.

3. With the new modification, the following data would be provided:

a. The fusing RF and time on [redacted]

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b. The beacon RF

c. The time of arming (L-Band)

4. The S-Band scanning receiver from System XVII is required because of the extremely short time (200 milliseconds) that the arming signal is on before impact with the target.

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5. According to [redacted] much of the information is derived from a test manual on the SA-2 radar system which has not been translated accurately enough to remove all doubt concerning specific frequencies.

6. If the present LONG ARM drone were to be flown, we would probably get only the time of arming. With the proposed modification, he indicated that we probably would get some

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X-Band, CW and pulse data as well.

7. I reminded Phil that we had proposed once before that the U-2 be configured to carry a telemetry receiver so that it could replace the B-47 if necessary for China overflights. He agreed that the requirement for data on Chinese missile sites was, in his opinion, a valid one. Since then, DIA has recommended that the LONG ARM drone be modified. It seems logical that we should seek the good counsel of Intelligence Division and C&FE/OSA along with OEL to arrive at a recommendation for the exact configuration of the LONG ARM package and a recommendation for its employment to collect data over other sites in addition to Hanoi.

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Lt. Colonel USAF  
Chief, Plans for Field Activities, OSA.

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Plans/FA/OSA [redacted] mem (13 August 1965)

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