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PENCHARDEN FOR: Special Assistant to the Director for Flamming and Development

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: Zoom Climb Teste

aubject of soon climb tests has been gone into very theroughly. A meeting to cover all facets of these tests was held this date. Fersona in attendance were

2. To begin with, the choice of a base at which these tests should be conducted was reviewed.

and still recommends that, because of superior capability in equipment as well as experienced people for weepons systems testing, silin is the proper location. It was the consensus that if realistic results are to be obtained, full use of silin facilities and experienced people should be used. The only sirberne seapons system presently at Edwards is the F-104. In addition, the Silin CCI capability is far superior to the practically non-existent capability in the Edwards area. For these reasons, if the tests are to be conducted at all, it is assumed that they will be conducted at Silin.

- 3. Resping security in mind insofar as is practicable, it was also agreed that the U-2's could be operated from Del Rio with no degradation of the results while maintaining reasonable security. It may require additional sorties due to aborts by the Eglin sirereft as well as the miditional hours of an route time between Del Rio and Eglin. It is placed to leanth the U-2's from Del Rio maing Project people from Edwards.
- purpose of determining what weapons systems and techniques constituted the most serious threat to the U-2. It is intended that the valuerability testing progres which is conducted against the U-2 will be conducted in such a manner so as to most nearly similate what is considered to be the Russian air-to-air capability. There follows the sequence of testing which ATIC feels should be evaluated:
 - a. Using the F-IC4 under (XI control, it will be vectored to a point extern of the U-2 at an altitude of 64,000 feet straight and level at speeds of much 1.3 and 1.6. At this altitude it is presumed that pilot can be placed into visual contact at which time he could launch an IR guided missile. Any pull-up maneuver will be executed on pilot initiative rather than GCI predictions of proper pull-up point.

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- b. Itill using the F-104 and from an altitude of approximately 45,000 feet at a speed of mach 2, the interceptor would be vectored by GCI to execute normal smap up techniques for simulating both IR and bean riding guided missile attacks. These first two tests would be to simulate a day fighter attack within the capability of the MID-19 and MID-21. Further along in this day phase, canouflaged U-2's will be used. It is also planned to evaluate evasive techniques such as programmed turns.
- c. To simulate velnerability against the TAX-15 all weather interceptor, an aircraft having the performance of much .91 at 50,000 feet and all weather intercept search and look-on radar will be used. This will probably be the 7-102 or F-1019. The technique have will be to first obtain a radar look and then to pull the rose up and fire after which the interceptor would return to a ness level attitude while maintaining lock-on. It is also intended that an IR guided missile system will be used in this phase of the testing.
- d. At such time as the _____ proves effective, it will be introduced.
- 5. A test progrem of this scale will necessarily require that certain people at iglin be made knowledgeable of the U-2, its operating speed and altitude. However, from a review of the processes through which the testing and analysis of results would go, it appears that the numbers involved could be held down within reason. Conservatively speeding, providing we can get concurrence and adequate priority from ARDC Headquarters, the following people would be made knowledgeable. It is emphasized that no reference to the igency is necessary or contemplated to enyone. As far as any of the people at Eglin are concerned, the target U-2's will be FOG.
 - a. The Base Commander should be brisfed on type and performance. We hope to have ARDC send an "MYES ONLY" directive to Maj. Gen. Joe Kelly pointing out that this is a highly classified test to determine (for SAC's banefit) the vulnerability of the U-2.
 - b. A Test Project Officer whose duties would be to set up, direct, coordinate and have analysed all phases of the test program.
 - c. It may be necessary (depending on the desires of Gen. Kelly) to bring in the officer who is Director of Air Defense Wespens Systems testing.
 - d. Four pilete.
 - e. The chief of the SCI team and possibly all three members of one GCI team.
 - f. One operations analyst whose detice would be to assumble the data collected, and analyse it so as to come up with the kill probabilities under the different circumstances.

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7. It is planmed that will submit this proposal to Gen. McMickle and Cel. Apposid at ARDC. A tentative appointment has been made with Gen. McMickle at 1630 **Revender*.	
S. Your concurrence with the	above progres is requested.
concuments NOV 4 1958	Director of Operations
(sgd) Richard M. Bissell, Jr.	
OPS/DCI/CFQ:mem	
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