

Steps should be taken to immediately supply to selected units a limited number of refined versions of the model 2B scorer which is now in use at A.P.G.C. In order to realize full potentialities of this scorer to the training field it should be used with a small, low drag target which can be towed by fighter a/c such items are currently available from at least one manufacturer (Del Mar.) These so called frangible targets have undergone successful test at one installation already. Both scorer and targets are far beyond developmental stages and should undergo O.S.T. here at A.P.G.C. toward standardization. The model 2 -B R.O. F.E.I. has a large amount of an integrated target, scorer system would be many times that of either scorer or targets separately.

Propose that contracts be let immediately for construction of a limited number of model 2B R.O. F.E.I's with the following changes. Mounted in a suitable tank with a streamlined plastic nose housing antenna and the strike camera covering its area through a prismatic arrangement- This diagram is a Del Mar version of the scorer. See diagram "( - The voltage regulator should be eliminated. An improved sweep circuit such as that in Fig #2 should be used. The Mode IV camera should be replaced with a U.S.A.F. type A-7. If possible Fri X film should be used. Most of the equipment will be G.F. (Radar components, C.R.T, camera lens and Hi Volt supply)

The fabricated units will be the housing wiring, sweep circuit and camera lens adapter.

Specifications should only include configurations and not accuracies

attainable with the system. These specs should include items such as tank shapes and its strength. Camera image configuration sweep length speed, linearity and duration and radar image height.

Construction of this item should take a short period of time with the first unit available for testing at A.P.G.C. in a period of a month or so.

Specs for A'Scope c KT sweep should:

1. Start within 1 N sec or less after trigger
2. Be linear to 10% or better over range of 500 to 2000 ft
3. Be adjustable in length from 1300' to 2500'
4. Cover at least  $2\frac{1}{2}$ " of tube space at any speed.

Video should have an amplitude of at least  $3/8$ " on tube face of saturated signal Presentation should have negligible defocussing.

Further propose that a program be implemented to utilize and further develop the principle of radar optic scoring of missiles for Air Force use. Some of the items to be developed should be; a small unit utilizing ships radar thus equipping each a/c with its own scorer, application of this scoring method to long range missiles such as Falcon, scoring of missiles by radar entirely. use of method for ballistics studies and refinement of scorer mounted on chose a/c.