SECRÉT Page Cne 1 June 56 (Dictated 31 May 56)

MEROPARIDEN TO PILE

Ho: NOTES ON DISCUSSIONS WITH A/C TRUSCOTT, G/C POOTTIT, G/C ALIMINALE, W/C BROUGH, AND W/C HAMILTON (RCAP PROJECT COORDINATOR, CF-105 AND FS.13) ON WEDNESDAY, MAY 30/56

A number of discussions took place on both the CF-100 and the CF-105, the main points of interest of which are shown below.

CF-105 EVALUATION

The E.C.A.F. had intended to have a formal evaluation of the CF-105 prior to December 1957 in order for the C.A.S. to recommend to Cabinet, by January 1958, that work on the 12th aircraft and beyond should proceed.

This timing was based on our manufacturing lead time rather than any B.C.A.Y. magic date.

I made it quite clear that any evaluation, especially on handling qualities of the aircraft, prior to June, 1958, when we expected to have the damping system in reasonable shape, could be dangerous from a decision point of view, since the aircraft would not have particularly good handling qualities until the damping system had been wrung out and developed, and we would, for instance, not be able to fly the full flight envelope until that time. I pointed out that while the Company would obviously have no objection to E.C.A.F. pilots flying the aircraft during the latter part of 1957 or early 1958, we could not be a party to a pretence that we would have an aircraft which would have good flying qualities over the flight envelope at that time.

It was finally agreed that the Company would provide the E.C.A.F. with a short write-up, giving an indication of the flying qualities and the protions of the flight envelope that could be reasonably covered, on a time basis, i.e.,

by October 157, January 153, April 158 and July 158, showing the general increase in performance and flying qualities as the damping system was wrung out.

The R.C.A.F. agreed to confine any evaluation to a C.E. & P.E. pilot and keep the Operators out of it, and the C.E. & P.E. pilot would be brought into the program prior to flying the aircraft to get a good assessment of what he could hope to evaluate.

CF-2054 INTERIM VARSION

I described in some detail the general philosophy of the introduction of the CF-105A, and the meeting was very enthusiastic about the idea and the possibility of getting aircraft in use in the n.C.A.F. prior to the mid-1960 date.

They felt that the J.75 version was unaleable on the basis that it was not possible to do an easy retrofit to full CF-105 specification, and also that some twenty to twenty-five million dollars would be required for additional J.75 engines from P & W.

They felt that the CF-105A program only made sense if it was a straight de-rating based on development time, but that it automatically became a full CF-105 to meet the specification as the various items were wrung out and developed.

They agreed that this was a far better progress than spending a large amount of development money on a sophisticated CF-100.

There are apparently sections in the R.C.A.F. who are still exerting pressure on the need for an aircraft to seet the threat between the CF-LOO and the CF-LOS, and the F-LO2 and F-LO4 are still being discussed. As a result of yesterday's meeting, I feel that while there may be no funds available to go ahead with the CF-LOSA, at least the ANTS group who were in the meeting, are now convinced that if there should be an interim aircraft of any kind between the CF-LOO and the CF-LOS, it should be the CF-LOSA, and, on that basis, I believe that the discussions achieved their objective.

The AHTS group are most sucious to receive our submission on the CF-105A.

CF-105 PIRE CONTROL EYSTEN

It was obvious from discussions on the fire Control System for the CF-105A that Alswinkle now has some doubts about getting the Astra-1 by the date originally assumed, especially since R.C.A. apparently do not have a contract from U.S.A.F. to carry out this work, and this is unlikely to materialize for another two to three months. While the E.C.A.F. are worried about this, they still feel that the Astra-1 system is well worth waiting for and they have not changed their minds on the technical superiority of this system over the EX.1179.

CF-105 DAHPING STSTEE:

I mentioned Hughes' offer to provide Kinneapolis-Honogwell with all the data on the Demping System. They agreed that if H-H could use this data and either improve the schedule or take less risk in designing hardware, we should be in a position to cancel the Hughes contract.

I promised to let them know the results of our visit to Kinneapolis-Monaywell.

CP-100 DEVELOPMENT

Apparently, the Secision to go shead with Sparrow-II and the Nee Heat, i.e., the Mark 6, is irrevocable, and I pointed out that the specification called up a number of items over and above these modifications which could modify our program considerably.

I told them that we propose to write them a letter indicating what we could provide them with by the June '58 delivery date, and separately list the items that we could not, with appropriate dates for incorporation and additional costs where applicable.

I made it clear that the data collected by S/L Landry was not a formal Company submission, and that we would

not submit any proposal on the 8500% thrust engine with afterburner, and that our submission on the CF-100 development program would be based on a prototype program involving three aircraft for (a), Standard Series 11 Engine with 35% Afterburner, and (b), Orpheus Engines on the wing tips.

CF-100 HAPK 5 CRASH

I brought them up to date with our can investigations on the crash at Kinress and suggested that a term of Carl Lindow, Fred Flush and seasonly from May Foottit's office, and probably a pilot, visit the Equadrons to educate them on the use of the Mark 5 and assist them to become familiar with the flight envelope and the effect of gusts on the mansuver envelope, since, unless the pilots get this type of education, they are likely to break up Mark 5's in the future, if they fly on fast demonstrations at low altitude, especially in the condition that the aircraft at Kinress was in, i.e., with tip pode on and empty.

Truscott and Foottit agreed to try and arrange this with the Equadrens.

The E.C.A.Y. had felt that they should have a full scale test on the CF-100 Mark 5 wing, since the last test had been a simulation on a stub wing, but after discussing this with them, and pointing out that the failures were exactly at the spot which had failed on test, and that we could show that the failure had all the indications of being due to a 'g' overload, they felt the test would not be necessary and agreed with the approach of educating the Squadrons.

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J. C. Floyd. Vicz-President, ekcinseriko

Cc's to Hearry:
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