19 December, 1955

Sir Roy H. Dobson, C.B.E., J.P., Hanaging Director, A. V. Roe & Co. Ltd., Greengate, Middleton, Manchester, ENGLAND.

VERY COMPIDENTIAL

Dear Sir Boy:-

The same of the sa

I hope that you had a good trip back to the U.K. and that the weather was a little kinder to you than I understand it was on the way over. After being back here for five days, in the middle of another "agonizing re-appraisal", I feel as if I had never been away.

I want to thank you, Sir Rey, for your wonderful hospitality on my stay at Sutton Grange. Hrs. Hardy really looked after me well, and Setty and Harry also looked after me at Tam-youed, when I went up to see the boat and stayed the night with them. I think Tam-youed is one of themicest spots I have ever seen in the Sritish Islas.

with regard to the trip itself; I believe that it was well worthwhile for a number of reasons, one of themset important to me being that the discussions with Rey Swans and the beys at woodford, and also with Micholson and his experts at the R.A.E., made me more sure than ever that we are really on the right track on the CF-105, especially with regard to the aerodynamic side. While Rey himself may or may not still have certain reservations about the aircraft, the reports which he very kindly obtained for me, of the tests which were done by Sethmaite and Leavy at woodford on the leading edge notch and extension, which were tried on the 707, tend to confirm what we have been assuming on the CF-105.

I spent a day with Micholson, Chief of the Suparanic Acrodynamics Group at the R.A.E., Mr. Newby, and Br. Kuchemann, and a number of other people, and asked them point-blank whether they felt there was snything on the CF-105 which would cause them to lose any sleep, bearing in mind the present state of the art. Micholson emphatically said that there was not, and that he still believed the CF-105 is more advanced than any contemporary aircraft on this side of the Iron Curtain. He indicated that the R.A.E. had put in good reports to the Ministry of Supply from time to time.

I believe I was encouraged most of all by a visit to my old friend, Bob Lickley, Chief Designer of Fairey's, since they have been having a lot of success with their delta which has done over forty supersonic flights in the last six weeks, and it is considered by Farmborough to be far superior, performance-wise, than the calculations would have indicated. I understand that the performance exceeds even what Fairey's had put out, which indicates that the drag is lower than antie-ipated.

The Fairey delta is closer to the CF-105 than anything else that is flying at the moment. It is a 60° delta with a high wing, with a 45 thickness shord ratio. The aircraft is almost a 1/3 scale model of the CF-105, which is certainly encouraging to me personally, and in the absence of our extensive supersonic wind turnel tests, should give us a great deal of satisfaction.

I had an excellent discussion with A/V/M Satterley and his people, and also with Sir Thomas Pike and Mr. Handel Davies, Scientific advisor to the Air Ministry. I also visited Sir John Baker and A/V/M Silyn Roberts, and Mr. Woodward-Nutt, the Principal Director of Aircraft Research and Development in the Ministry of Supply.

They were all very keen technically on the CF-105 and considered it to be the most potent weapon in its time scale. I told them that we could fulfil the requirements of their new 0.R.329 with more power or the use of an auxilliary recket and they were more than interested. One thing that worries them of course, is the method of financing the project. They feel that the Canadian version would be too expensive for them to purchase, and that if they were made in the U.K. they felt that there would be a difficult problem of lisison, similar to

the horrible mess that English Electric and Martin's got into on the production of the Cemberra in the United States. I pointed out that if the siruraft was menufactured by somebody in the Group in the U.K., this would certainly not be a problem, since there would not be the same industrial pressure and by another. retions of one company to have to accept something designed

I suggested that there could be a middle course, which would be to purchase a fairly small number of aircraft from Canada, say ten or trealwa, and produce the rest in the U.K., which would mean that for a considerat of somewhere around treaty to treaty-five sillion dollars, they would be able to sading into the program, and do that evaluation, training, and operational trials considerably some than if the sirraft were magnifactured from surside in the U.K.

I strongly recommended to Sir John Baher and to Sir Thomas Pilm that they team up toggither and make a visit over to Canada in the Spring, with Topwesentatives of the Air Ministry, the Ministry of Supply, and the operators, to do a detailed evaluation on the cost of menufacturing in the U.K.

I think, filr Roy, that if we could have someone on the manufacturing side in the Group came over and do an evaluation of the east to tool and manufacture, say, 200 units, which I understand, would be the minimum force which would be required in the U.K., then we could have some figures ready to discuss with the Ministry and M.O.S. when they came over. What do you think?

erest in the aircraft in the U.K., and especially in it's call-ision course armament, and I believe a let of the spade work has now been done, and it is now a matter of fellow-up and keep-ing the interest of the people concerned, which we will endeaver There is no question that there is a genuine int-

the U.K., my own opinion, for what it is worth, runs something

from a technical design point of view, and on the alreraft side, Generally, the Group appears to be in the doldre