

14 September 1956

Mr. H. R. Smith

J. C. Floyd

ESTIMATE OF TOTAL PARTS CONTENT IN CP-105,
AND FORECAST OF CHANGES, ETC., INVOLVING
NEW OR REVISED PARTS

First, I want to say that it is extremely difficult to come up with an accurate forecast of parts count on items which have not yet been started in Design and for which information is not available, such as the Astra-1, missile installation, etc., etc.

However, the attached write-up is our best guess of the parts issue by date up to March 31, 1958. The first chart shows my own attempt to establish the basic parts content of each major job on the Mark 2 aircraft (the Mark 2 being defined as the aircraft with PS.13, Astra-1, Sparrow missile, revised air conditioning, etc.), and indicates the components affected by these changes.

I have also tried to show the probable shape of the release curve, to give some indication of the estimated release dates, and a parts count for each particular job. In addition to this I have made the best guess at the number of equivalent parts involved in changes, an equivalent change part being equal to two actual changed parts on the basis that the effort required to change two parts is about equal to the effort required to draw a new part.

This chart was prepared after discussion with all the principals concerned and reflects the best knowledge that we have at this time of the job content. However, it can only be used as a guide for the purpose of estimating tooling and manufacturing costs by Fiscal Year, and is not intended as a final release schedule.

A detailed release schedule is being prepared by Mr. Hake on the basis of a complete review of the Engineering situation, including budget and manpower, and this, we hope, will be ready within the next few weeks.

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I am also attaching a survey which was carried out by Messrs Lindley and Adey, which approaches the parts issue from another aspect, i.e., our budget and available manpower, and while the working sheets are included for reference, Chart #5 indicates their estimates of the work content. For instance, by March 31, 1958 there will have been a total of 39,500 new parts issued on the Mark 1, and 8,800 on the Mark 2.

In addition to this, they estimate that there will have been 14,000 changed parts issued on the Mark 1 and 13,000 on the Mark 2. These 27,000 changed parts, will, we believe, be equivalent to 13,500 new parts, bringing the total of equivalent new parts to 61,800.

You will see that with the two different approaches to this job, the equivalent parts estimate is within 900 parts. We therefore believe this to be our best guess at this time.

We hope that the final release schedule will be available to you by the end of this month. In the meantime, I hope that this is sufficient for you to carry out your cost estimate for the job content as outlined.

J. C. Floyd,
VICE-PRESIDENT, ENGINEERING

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