BRISTOL AIRCRAFT (WESTERN) LIMITED WINNIPEG CANADA

ERGINEERING MENORANDUM

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Expeditor 3 TM Reg. No. 1525 has been received for repair to the 29 tube mamber in the centre section truss assembly.

This repair will be carried out by applying heat and bending of tube as follows:

- 1. Pack the tube ends with wet asbestos mud to confine the heat to 29 tube only.
- 2. Apply a jack at the centre of the tube by supporting the jack on a bar which in turn is hooked on to each end of the 29 tube.
- 3. Heat the tube and straighten it by applying the jack. Do not apply heat in excess of 1200°F.
- 4. Magnaflux, examine carefully for cracks, clean, prine and paint aluminum lacquer.

Notes: 1. The 29 tube is bowed in 2 directions (inboard and forward). The jack should therefore be applied in such a place that will, when straightening, correct for both these bends.

- 2. Apply the heat in such a manner that will prevent misaligning the landing gear hinge fitting.
- 3. When checking the alignment of the landing gear hinge fittings it was found that the port outboard fitting was 13/64 to the rear and the starboard outboard fitting was 9/64 to the rear. This fact was also indicated by excessive wear on the inboard sides of the tires. This condition will be declared acceptable.

4. The reduction of strength in the -29 tube member due to this repair, will still leave the margin of safety within acceptable limits.

RUBY- NOV-28-1957

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