



A. V ROE CANADA LIMITED MALTON - ONTARIO

TECHNICAL DEPARTMENT (Aircraft).

AIRCRAFT CIOS

REPORT NO 7 0554 12

FILE NO

NO OF SHEETS ____

TITLE

PRELIMINARY INVESTIGATION

CENTRE FUSELAGE TORSION

Classification cancelled / Changed to UNCCASS

AVRS By authority of

Date 30 Sept 96

Unit / Rank / Appointment AERO / M. E. LIBRARY

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BIBLIOTHÈQUE AFRO | G.M.

PREPARED BY SKHARLEY

DATE MIAR SS

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DATE

SUPERVISED BY

DATE

APPROVED BY

DATE

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AIRCRAFT:

NEG AVRO AIRCRAFT LIMITED TECHNICAL DEPARTMENT

REPORT NO 7/0554/12

SHEET NO.

PREPARED BY

CHECKED BY

DATE

INTRODUCTION

CONFIDENTIAL

THIS REPORT IS A PRELIMINARY INVESTIGATION OF THE TORSION LOADS IN THE CENTRE FORELINGE IN THE MISSILE BAY FIREA, AND THE MANNER IN WHICH THE TORSION MAY BE REACTED.

A TYPICAL SECTION BETWEEN STN 255 & STIN 392 IS CHOSED A TOTRONE DISTRIBUTION IS FOUND, FIND SHEFFER IN THE DUTS AND SKIN DUE TO THE THANKING TOWN CASE FIRE CONFUTED.

THE EFFECT OF TORQUE ON THE TOP SKIND CUT OUT BETWEEN STN 303.8 & 315 15 EXAMINED.

REPORT NO. ___ OSS 1 A. V. ROE CANADA LIMITED MALTON . ONTARIO SHEET NO. TECHNICAL DEPARTMENT (Aircraft) PREPARED BY AIRCRAFT S. YOUNG FFB 11/58 CHECKED BY DUCT KINK LOADS - ULT FACTOR 1345 GROUND SUCTION CASE ULT SUCTION = -4. 1.315 PS1 1. KINK COADS ARE -4 1365 MINUT -- 171 OF MAX PRESSURE KINK LOADS. PLAN: 157A 330 1/63 # OLT ELEVATION; No DATURA 747 # VLT 883 TULT

TECHNICAL DEPARTMENT AIRCRAFT LIMITED SHEET NO 13 PREPARED BY DAT

FROM P. 8. MAX TOROUS = 1.8525 X10 11) 62

"T2 = .06 128 X 1.8525 X10 = .11346 X10 110 P

ET T = .871 X 1.8525 X10 = 1.6246 X10 110 P

DUCT FREE = 102012 [P.12]

.. DUCT SHEARS FLOW DOE TO TORSION

CHECKED BY

DATE

FUSER 6= 4065 ID2 [P.12]

" SKINSHERT DUE TO TORSION

A. V. ROE CANADA LIMITED REPORT NO. 7/6554/12 MALTON - ONTARIO SHEET NO. TECHNICAL DEPARTMENT (Aircraft) PREPARED BY AIRCRAFT 15-2--Tok flore C105 CHECKED BY DATE STH 303.5-315" H CUT-OUT EXISTS OVER THIS KECHON BETWEEN TOP INVER LONGERONS mark Loverton 4 Ho EXHAUST DUCT COTTOUT MAX. TOROVE = 1,852,500 In IL VET. HISSUME QUIER SKIN EFFECTIVE ONLY 7= IT = 1852500 = 186 LL/m Vit. COAD BETWEEN LONGEROUS Pr = 9 x28" = 5210 66 6 TOR PUE = 186 x 28 = 5,210 16 the THIS IS DUE TO TORQUE DOLY.