

PROJECT STUDIES MADE IN THE PRELIMINARY DESIGN OFFICE

FROM 1952 - 1959

1952.

- C-104 - Preliminary studies - Delta Wing Arrangements - developed from 43 and 55 degree swept wing schemes. Single and twin engined arrangements.
- C-100 - Mk 5, 6, 7 and 8 - Thin wing schemes (8% T/C) with afterburner.

1953.

- C-104 - Continuation of design studies.
- C-105 - Design studies for various wing areas etc.
- C-100 - Mk 4 afterburner installation.

1954.

- C-105 - General design.
- C-105 - Area rule study and application to C-105 aircraft.
- C-105 - Free flight model project.

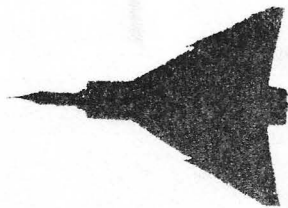
1955.

- C-105 - General design.
- C-105 - 1/6 Scale intake design.
- C-105 - Free flight model project.
- C-100 - Missile pylon design - 1/10 scale model.
- P-1 - Missile projects RCN.
- P-2 - Target drone RCAF.
- P-3 - Jet trainer RCAF.

1956.

- C-105 - Free flight model project.
- C-105 - General design.
- C-100 - 6% T/C Wing with Bristol Orpheus engines in wing tip pods.

12/57



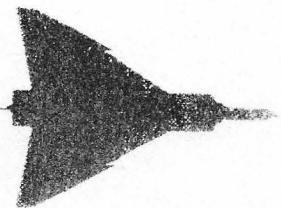
- C-105 - Flight refuelling proposals.
- P-4 - Jet transport study - high speed.
- P-16 - Supersonic jet transport study - 1.75 Mach No.
- C-105 - External fuel tank - ejection design.
- P-7 - V.T.O.L. Supersonic fighter project - 4 Orpheus engines for USN.
- C-100 - Sparrow missile installation - 1/10 scale model.
- C-105 - Survey of problems associated with the installation of British engines in C-105 aircraft.

1957.

- C-105 - Mk 1 and Mk 2 - general design.
- C-105 - I.R. seeker - fin installation proposals.
- C-105 - Revised canopy designs.
- P-10 - C-105 Mk 3 - preliminary schemes - increased fuel capacity studies.
- P-10 - C-105 Mk 3 - intake redesign for Mach 3.0 - structural redesign etc.
- P-11 - Infantry anti-tank missile project.
- P-12 - Aerial cargo pick-up method study.
- P-13 - Preliminary study - 1 (anti-tank missile).
- P-8 - Helicopter project.

1958.

- C-105 - Mk 1 and Mk 2 - general design.
- C-105 - Genie missile pack proposal.
- C-105 - Long range tank study.
- C-105 - Mk 3 completion of design study, intakes, structure, fuel system, etc.
- P-15 - Gyroplane.
- C-105 - Mk 1 mirror landing aid study.
- P-17 - C-105 - zero launch proposals.



- P-13 - Project study - 2.
- C-105 - Mk 2A - study - using Mk 3 type fuel tanks.
- P-19 - C-100 - schemes - C-100 aircraft modified as an S.T.O.V.L. aircraft.
- C-105 - Mk 1 and Mk 2 - proposed development radar nose using Hughes 23" up to 40" diameter antennae.
- C-100 - Design of radome and antenna adaptors for boresight test rig.
- C-105 - Flight simulator and damper design.
- P-20 - Investigation of 1/2 scale A.V.Roe Manchester stand-off bomb (Blue Steel) in C-105 aircraft.

1959.

- P-15 - Preliminary design - 6 seater.
Preliminary schemes - larger versions - 20, 50, 100 seaters etc.
- C-105 - Revised pilot's canopy designs to improve visibility.
- C-100 - Design radome adaptors - boresight test-rig.
- C-105 - Design of radome and antenna adaptors for boresight test-rig.

WIND TUNNEL PROGRAMMES.

C-100.

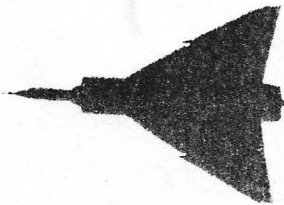
- 4X - Program (stability). July 1952.
- 4 - Rocket pack. May 1953.
- 4X - Spinning model. Jan. 1953.

C-104.

- 03 - Transonic (general purpose). April 1953.

C-105.

- 04 - Transonic (general purpose). Sept. 1954.
- 07 - Low speed (general purpose). Oct. 1954.
- 1/80 - High speed (stability). Jan. 1955.
- 1/50 - High speed (reflection plane). Jan. 1955.



1/40	- High speed (intake model).	Jan. 1955.
6/10	- Intake model (duct system).	June 1954.
1/6	- Intake model (transonic).	April 1955.
03	- Supersonic (general purpose).	April 1955.
1/8	- Icing model.	Aug. 1955.
1/24	- Spinning model.	Jan. 1955.
1/25	- Antenna model.	June 1955.
1/10	- Flutter model.	May 1956.
1/10	- Transonic (general purpose).	Oct. 1958.
C-105	- Geometry brochure.	
