

AIRCRAFT TYPE APPROVAL

Manufacturer Noorduyn Aviation Limited,
 Montreal, P.Q.

Model - Norseman Mk. V Normal Category

Engine P & W Military Model R-1340-AN-1

Fuel 80/87 octane - minimum grade

Engine Limits

	<u>Alt.</u>	<u>HP</u>	<u>RPM</u>	<u>IN.HG</u>
Max. except T.O.	S.L.	550	2200	34
Max. except T.O.	5000	550	2200	32.5
Take-off (1 minute)		600	2250	36

C.G. Range

Landplane and Skiplane
 24.6% MAC (103.3) to 38.0% MAC (114.7) at
 7400 lb.
 18.0% MAC (97.7) to 38.0% MAC (114.7) at
 6000 lb. or less

Seaplane
 25.3% MAC (103.9) to 38.0% MAC (114.7) at
 7540 lb.
 18.0% MAC (97.7) to 38.0% MAC (114.7) at
 6000 lb. or less

24% MAC (102.8) to 30.8% MAC (108.5) at 7125 lb.
 or less with item 4.

Straight line variation between points given.

M.A.C. 85 inches. L.E. of M.A.C. at +82.36.

Datum Propeller hub centre line.

Maximum Weights

Landplane - 7400 lb.
 Skiplane - 7400 lb.
 Seaplane - 7540 lb. (with Edo 55-7170A floats)
 7188 lb. (with Edo Yd 6470 floats)
 7125 lb. (with item 4).

No. of Seats Bench type seats for eight passengers, or passenger
 chairs for six.

Fuel Capacity Two wing tanks, 50 Imp. gallons each
 Front belly tank 37 Imp. gallons)
 Rear belly tank 67 Imp. gallons) optional
 Auxiliary cabin tank 32 Imp. gallons)

Oil Capacity 8.5 Imp. gallons.

Approval Basis A.P. 1208

Equipment 1. Hamilton Standard two bladed constant speed propeller 12D40-211 or three bladed constant speed propeller 3D40-231.

 2. (a) Ski installation, Federal ANA 7550 with retractable hydraulic actuated skis.
 Federal Drawing No. 10B1224, 11R434(E).

 (b) Ski installation, NWI Drawing No. 120301/A
 Main ski, NWI M.S. 7500
 Main pedestal, M & C P4E.

 (c) Ski installation, CPAL Drawing No. 25UR-11062/B
 Main ski, Elliott Bros. E-16 or A.M.B. 13A
 Main pedestal, M & C P4E.

 (d) Ski installation, Noorduyn Drawing No. 16-33901
 Main skis, Noorduyn 16-33928
 Main pedestal, Noorduyn 16-33976.

 (e) Ski installation, Aircraft Overhaul & Repairs Ltd.
 Drawing No. 926, Noorduyn Drawing No. 16-33901
 Main ski base, "Norseman" 29C33902
 Main ski pedestal, spring-trimmed with added harness.

 (f) Ski wheel installation, Northwest Industries Drawing
 No. 120305 "A" Type I, or W.P. Dunphy Drawing
 No. R.30.
 Main ski, NWI M.S. 7500E.


 (g) Ski installation, Saskatchewan Government Airways' Drawings Nos. SGA 91 and SGA 92.
 Main ski base, C.C. & F. Model 16-8HR (Drawing
 No. 29-339140 or Noorduyn Drawing No. 16-339108.)

 (h) Ski installation, CPAL 25R2276
 Main ski base, Elliott E-16 or A.M.B. 12
 Main ski pedestal, M & C P4D.

- (i) Ski installation, Noorduyn Drawing No. 29S33901
Main ski base, Noorduyn Drawings Nos. 16-33996,
16-339140, 16-33992, 16-339101, 16-339108, 16-339128.
 - (j) Ski installation, NWI Drawing No. R15300
Main ski, M.S. 7500 (ski wheel).
 - (k) Ski installation, TransAir Ltd. Drawing No. 0134
and Engineering Notice No. E 135
Main ski base Federal D 8000.
Main ski pedestal M & C P4E.
3. (a) Float installation, Noorduyn Drawing No. 16-35100
with Edo 55-7150A floats.
- (b) Float installation, Noorduyn Drawing No. 29-35201
to 29-35210 inclusive with Edo 55-7170A floats
(OPAS drenching gear).
- (c) Float installation Noorduyn Drawing No. 16-35001
with Edo Yd 6470 floats.
- (d) Auxiliary Fin on seaplane: for export to the
United States of America.
4. Canoe carrying installation, Noorduyn Aviation
Limited Drawing No. 16-73002 (for Edo 55-7170A
floats only).

Canoe bow not further forward than 6 inches
aft of propeller disc.

Canoe not to exceed 17' - 0" length, 3' - 1"
beam and 80 lb. maximum weight.



W.M. Mc Leish,
Chief Aeronautical Engineer,
Department of Transport