

DEPARTMENT OF TRANSPORT
 AIR SERVICES
 OTTAWA, CANADA

A 9 Issue 4
 Norseman Mk. VI
 February 4, 1964

AIRCRAFT TYPE APPROVAL

Manufacturer Noorduyn Aviation Limited,
 Montreal, P.Q.

Model - Norseman Mk. VI 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 (97.9) 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 Bucket type bench seats for seven passengers, or
 folding type bench seats for eight passengers, or
 passenger chairs for six.

Fuel Capacity Two wing tanks, 50 Imp. gallons each.
 Front belly tank 37 Imp. gallons each }
 Rear belly tank 64 Imp. gallons each } optional
 Auxiliary cabin tank 32 Imp. gallons }

Oil Capacity 17 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 AWA 7550 with retractable hydraulic actuated skis.
Federal Dwg. 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 or 16-339140
Main pedestal, Noorduyn 16-33976
- (e) Ski installation, Aircraft Overhaul & Repairs Ltd.
Drawing No. 926, Noorduyn 16-33901
Main ski base, Noorduyn 16-33928 or 16-339140
Pedestal, Noorduyn 16-33976.
- (f) Ski wheel installation, NWI Drawing No. 120305
"A" Type II
Main ski, NWI M.S. 7500E.
- (g) Ski installation Drawing W.P. Dunphy R.30
U.S. Army T.O. "Norseman" AN-01-155CB-2
Ski assembly, 16-33992, 16-339108 or 16-339128.
- (h) Ski wheel installation drawing Aircraft Overhaul
& Repairs Ltd. 15300
Main ski NWI M.S. 7500
- (i) Ski installation Drawing CPAL 25R-2218/E
Main ski base, Elliott E-16 or AMB-13A
Main ski pedestal, M & C P4E.
- (j) Ski installation Drawing Eldorado Mining and
Refining Co. 1001
Main ski base, AMB 9200 serial 13A
Main ski pedestal M & C P4E.

- Equipment (Cont'd)
2. (k) Ski installation, TransAir 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 55-7170A floats (see Note 1).
 - (b) Float installation, Noorduyn Drawing No. 16-35001 with Edo Yd 6470 floats (see Note 2)
 - (c) 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.

NOTE 1 - If Edo 55-7170A floats are used on aircraft serial numbers 1 to 819 inclusive, it is necessary to reinforce the bracing tie rod plates in accordance with the manufacturer's Bulletin No. E 5/44/A and Technical Order No. 01-155 CB-13.

NOTE 2 - Installation requirements for Edo Yd 6470 floats are detailed in Noorduyn Norseman Aircraft Limited Service Bulletin No. E-1-54.

NOTE 3 - Modifications to the basic military version of the Norseman VI (C-64A and UC-64A) described in the following Noorduyn Aviation Limited and Canadian Car & Foundry Company reports are optional.

N.A.L. Report No.

Subject

743	Conversion of Norseman VI fuselage fuel tank compartments to Norseman V baggage compartments.
754	Conversion of Norseman VI wing assembly to Norseman V wing assembly.
756	Conversion of Norseman VI radio installation to Norseman V radio installation.
758	Removal of unnecessary service equipment.
760	Modification to front belly tank and filler neck well installation. (See also Airworthiness Directive 48-1)

N.A.L. Report No. (Cont'd)Subject

762	Relocation of battery.
780	Installation of folding bench seats and upholstered passenger chairs.

C.C. & F. Report No.Subject

761	Modification of rear belly tank and filler neck well installation (see also Airworthiness Directive 48-1).
772	Substitution of Grimes landing light for U.S.A.A.F. type.
775	Installation of improved exhaust tail pipe.
776	Installation of new design pilot and co-pilot seat.
777	Installation of metal doors and window frames.
780A	Installation of upholstered passenger chairs.
789	Relocation of B-16 compass.
791	Installation of Auxiliary baggage compartment.
792	Installation of folding bench type seats.



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