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New York Airways Collection - Trans World Airlines (TWA), "Flite Facts", 1965

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METROPOLITAN AIR SERVICES (Cont'd)

needed for an IFR certificate. NYA has been using dispatchers for some time.

The NYA pilots are members of the ALPA and fly credited 80 hours per month. They have a maximum ten hour duty time and keep quite busy. Observation of them at work seems to indicate there are not enough hands to go around, "as the human body is presently constructed" so functions of collective rotor pitch are combined with beep control in one lever which the pilot operated with his left hand, leaving the right hand free or the cyclic control which preforms the same maneuvering functions as the control wheel. The microphone switch on the yolk now takes on special value because the third hand for a microphone is no longer available and a boom mike is necessary. The console has an engine position actuator with four positions of stop, crank, start, and fly. The two beep trim switches on the collective lever are used to modify the engine conditions of take-off, crushing, and descent. The dual rotors are linked by common drives and beep control of engine r.p.m. provides engine synchronization and equal power loading.

NYA has the Boeing Vertol 107 turbo opted. It has 25 comfortable seats, relatively spacious seating considering the trip lengths. The scheduled block time, for example, from JFK to Wall Street-Manhattan, is 16 minutes; EWR-JFK nonstop is 12 minutes, and with two stops 25 minutes.

The Vertol 107 is jet powered by two GE T-58 turbine engines having 1250 shaft h.p. each with growth potential to 1500 h.p. IT has a 300 mile radius of operation at sea level on a standard day. Its stub wing tanks hold 1000 gallon of fuel and provide lateral stability if landed on water.

The fuselage is factory sealed permitting a float capability from water landing and taxi for over 24 hours. They are manufacture in Morton, Pennsylvania by Vertol Division of the Boeing Co.

SFO Helicopter Airlines operates Sikorsky S-61N twin jet, 26-passenger, amphibious turbocopters with GE T-58 turbine engines. S-62A, 10passenger copters are also used in addition to the hovercraft. The Sikorsky plant is at Stratford, Connecticut.

The maximum speed of Vertol 107 is approximately 145 KIAS. They cruise close to maximum. Helicopter speed is limited by the relation of rotor blade speed on the rearward portion of its rotation, to the craft's forward speed. High blade r.p.m. old counteract this, but immediately limitations in rotor efficiency result.

In the course of training and on the usual proficiency checks, pilot demonstration of the auto rotation technique is required. This is the safety feature for complete power failure. The departure and arrivals are made on an angular path with constantly changing speed, permitting auto rotation at any time. This flight path is designed to provide maximum safety at all times.

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RETROPOLITING AIR SERVICES (Cont'4)

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