N64EF – FOXTROT

INTERIOR

- 1. Parking Brake AS REQUIRED
- 2. Required Documents CHECK
 - a. Tach/Hobbs RECORD
 - b. Squawks **REVIEW** (Review 100 inspection/oil change times)
- 3. Control Wheel Lock **REMOVE**
- 4. Ignition & Master Switch OFF
- 5. Beacon CONFIRM ON
- 6. Propeller VISUALLY CLEAR
- 7. Master Switch ON
- 8. Fuel Gauges CHECK
- 9. Flaps (Area Clear) **DOWN**
- 10. Lights for Night Ops CHECK
- 11. Master Switch OFF
- 12. Alternate Static Source PUSH OFF
- 13. Fuel Selector **BOTH**

EXTERIOR

- 1. Left Fuel Tank QUANT CHECK &
- 2. Right Fuel Tank QUANT CHECK & **SUMP**
- 3. Engine **SUMP & RETURN**
- 4. Oil Level CHECK
- 5. Baggage Door LOCK
- 6. Left Side Fuselage CHECK
- 7. Tail Tie-Down **DISCONNECT**
- 8. Tail Control Surfaces CHECK (Cable connections, safety wires & stops)
- 9. Nav Light/Beacon CHECK
- 10. Right Side Fuselage CHECK
- 11. Right Wing Flap CHECK
- 12. Right Wing Aileron CHECK
- 13. Right Wing Nav Light CHECK
- 14. Right Wing Tie-Down **DISCONNECT**
- 15. Right Tire & Brake Assembly CHECK
- 16. Cowling **SECURE**
- 17. Nose Wheel Assembly CHECK
- 18. Propeller & Spinner CHECK
- 19. Alternator Belt **CHECK**
- 20. Landing Light **SECURE**
- 21. Carburetor Air Filter CHECK
- 22. Static Port CLEAR
- 23. Pitot Tube Cover REMOVE & CHECK
- 24. Stall Warning Vent CLEAR
- 25. Fuel Tank Vent CLEAR
- 26. Left Wing Tie-Down **DISCONNECT**
- 27. Left Wing Navigation Light CHECK
- 28. Left Wing Aileron CHECK
- 29. Left Wing Flap CHECK
- 30. Left Tire and Brake Assy CHECK
- 31. Final Walk Around COMPLETE

BEFORE STARTING ENGINE

- 1. Exterior Preflight COMPLETE
- 2. Seats, Belts, Shoulder Harness. ADJUST & LOCK
- 3. Fuel Selector Valve **BOTH**
- 4. Circuit Breakers CHECK
- 5. Brakes TEST & SET or HOLD

STARTING ENGINE

- 1. Mixture **RICH**
- 2. Carburetor Heat PUSH COLD
- 3. Prop Area VISUALLY CLEAR
- 4. Master Switch ON
- 5. Beacon CONFIRM ON
- 6. Primer **AS REQUIRED then** LOCKED
- 7. Throttle OPEN 1/8 inch
- 8. Propeller Area YELL "CLEAR"
- 9. Ignition Switch START
- 10. Oil Pressure **CHECK**
- 11. Mixture **LEAN 1**"
- 12. Flaps UP & OFF
- 13. Intercom ON/Volume Set
- 14. GNS 430 ON/Volume Set
- 15. Comm 2 ON/Volume Set
- 16. Transponder **ON/ALT/1200**
- 17. Navigation Lights **ON**
- 18. GNS 430 Self Test COMPLETE
- 19. Altimeters **BOTH SET**
- 20. Comm 1 and 2 Radio Frequencies SET
- 21. Radio Check COMPLETE

BEFORE TAKEOFF

- 1. Parking Brake AS REQUIRED
- 2. Flight Controls **FREE/CORRECT**
- 3. Elevator Trim **TAKEOFF**
- 4. Fuel Selector Valve BOTH
- 5. Runup. Throttle 1700 RPM
 - a. Engine Instruments/Ammeter CHECK
 - b. R/L Magnetos CHECK:
 - i. <125 RPM DROP
 - ii. <50 RPM DIFFERENCE
- c. Carburetor Heat CHECK
 - i. Verify RPM drop.
- ii. No subsequent RPM rise
- d. Low Idle & Carburetor Heat CHECK
- e. Carburetor Heat COLD
- 6. Flight Instruments **SET**
- 7. Radios & Navigation SET
- 8. Throttle Friction ADJUST
- 9. Strobes As Required
- 10. Landing/Taxi Lights **ON**
- 11. Briefing **COMPLETE**
 - a. Pax: seat belts, emerg. exits, sterile cockpit
 - b. Power loss on departure (density altitude)
- 12. Doors & Windows CLSD & LCKD

FLOW CHECK (at hold short line)

- Fuel Selector Valve **BOTH** 1.
- 2. Trim SET
- Carb Heat OFF
- Mixture RICH
- Flaps **SET**
- Radios SET
- Engine Instruments CHECK

NORMAL TAKEOFF

- 1. Wing Flaps UP
- 2. Carburetor Heat PUSH COLD
- 3. Brakes **RELEASE**
- 4. Throttle FULL POWER/CHK ENG
- 5. Elevator Control LIFT NOSE @ 60 MPH
- 6. Climb Speed 75 to 85 MPH

ENROUTE CLIMB

- 1. Airspeed 80 to 90 MPH
- a. Vv at 2000 lb = 86 MPH
- 2. Throttle **FULL**
- 3. Mixture FULL RICH (lean above 3000 feet)

CRUISE

- 1. Power 2200 to 2700 RPM (<75%)
- 2. Elevator Trim **ADJUST**
- 3. Mixture LEAN to max RPM

DESCENT

- 1. Fuel Selector **BOTH**
- 2. Mixture FULL RICH
- 3. Carb Heat AS REQUIRED
- 4. Throttle **AS REQUIRED**

BEFORE LANDING

- 1. Fuel Selector **BOTH**
- 2. Mixture FULL RICH
- 3. Carburetor Heat PULL ON
- 4. Landing Light ON
- 5. Airspeed 70 to 80 (FLAPS UP)
- 6. Airspeed 65 to 75 (FLAPS DOWN)

NORMAL LANDING

- 1. Touch Down MAIN WHEELS 1st
- 2. Landing Roll LOWER NOSE WHEEL GENTLY Braking MINIMUM REQUIRED

AFTER LANDING

- 1. Clear Runway CROSS HOLD LINE
- 2. Fuel Selector **BOTH**
- 3. Elevator Trim **INDEX**
- 4. Carburetor Heat PUSH COLD
- 5. Wing Flaps **UP/OFF**
- 6. Fuel Quantity CHECK
- 7. Landing Light AS REOUIRED
- 8. Strobes AS REQUIRED

SECURING AIRCRAFT

- 1. Parking Brake AS REQUIRED
- 2. Intercom OFF
- 3. GNS 430 OFF
- 4. Comm 2 OFF
- 5. Transponder **OFF**
- 6. Landing and Taxi Lights **OFF**
- 7. Navigation Lights **OFF** 8. Mixture IDLE/CUT OFF

AFTER PROP STOPS...

- 9. Ignition Switch OFF
- 10. Key **REMOVE**
- 11. Master Switch **OFF**
- 12. Fuel Selector **LEFT or RIGHT**
- 13. Control Lock **INSTALL**
- 14. Tach/Hobbs/Squawks RECORD
- 15. Re-Fuel AS NECESSARY
- 16. Tie Down/Chock AS NECESSARY Post Flight Inspection **COMPLETE**

BALKED LANDING (Go-Around)

- 1. Throttle FULL
- 2. Carburetor Heat PUSH COLD
- 3. Wing Flaps 20 DEGREES
- 4. Airspeed 65 MPH
- 5. Climb to Clear Obstacles
- 6. Wing Flaps **RETRACT SLOWLY**

SHORT FIELD TAKE-OFF

- 1. Wing Flaps 0 DEGREES
- 2. Carburetor Heat PUSH COLD
- 3. Brakes APPLY and HOLD
- 4. Throttle **FULL POWER**
- 5. Brakes RELEASE ACCEL. TO 60 MPH
- 6. Climb at Vx (65 MPH) UNTIL CLEAR OF OBSTACLE
- 7. Wing Flaps ACCELERATE & RETRACT
- 8. Climb Speed 75 to 85 MPH

SHORT FIELD LANDING

- 1. Approach SAME AS NORMAL LANDING
- 2. On final **POWER IDLE**
- 3. Flaps 40 DEGREES
- 4. Airspeed 65 MPH
- 5. Touchdown MAIN WHEELS FIRST
- 6. Lower Nose Wheel Gently & Retract Flaps
- 7. Apply Back Pressure on Yoke
- 8. Brakes as Needed

SOFT FIELD TAKE-OFF

- 1. Wing Flaps 10 DEGREES
- 2. Roll onto runway without stopping and hold nosewheel off ground
- 3. Smoothly apply full power and hold nose off until aircraft becomes airborne.
- 4. Level off and allow aircraft to accelerate in ground effect.
- 5. Climb at Vx (65 MPH) until clear of obstacles
- 6. Retract flaps & accelerate to Vy (86 MPH @ 2000 lbs).

SOFT FIELD LANDING

- 1. Approach same as NORMAL LANDING
- 2. On Final POWER FAST IDLE
- 3. Flaps 40 DEGREES
- 4. Airspeed 65 MPH
- 5. Touch Down with power slightly above idle on the main wheels at the slowest possible speed
- 6. Keep nose wheel off ground as long as possible
- 7. Allow surface drag to slow aircraft
- 8. Brakes are normally not required

PAX BRIEFING (SAFETY)

- S Seatbelt usage/Seat Adjustment
- A Air vent locations, airsickness
- F Fire Extinguisher (not installed)
- E Exits, how to open doors
- T Traffic (callouts) and Talking (sterile cockpit)
- Y Your questions

AIRSPEEDS:

- V_x 63 MPH (at 2000 lbs)*
- V_v 86 MPH (at 2000 lbs)*
- V_{ne} **182 MPH**
- **V_{no} 145 MPH**
- V_{fe} 100 MPH
- V_{s1} 57 MPH
- V_{s0} 49 MPH
- V_a 112 MPH (at 2300 lbs)
- *Consult POH Section VI to determine speed based on actual weight

EMERGENCY PROCEDURES

POWER LOSS "ABCDEFG"

- A. AIRSPEED—Achieve Best Glide
- B. BEST landing location—Go there
- C. CHECKLIST—FLOW CHECK
- D. DECLARE emergency-with ATC
- E. EGRESS/ELECTRICAL: Prepare for it, Master OFF prior to landing
- F. FUEL OFF (Prior to landing)
- G. Good Luck

POWER LOSS AFTER TAKEOFF

- 1. Maintain Aircraft Control
- 2. Best Glide 80 MPH
- 3. Fuel Selector OFF
- 4. Mixture IDLE/CUTOFF
- 5. Flaps **DOWN**
- 6. Airspeed 65 to 75 MPH
- 7. Master Switch OFF
- 8. Ignition Switch OFF
- 9. Doors UNLATCH
- 10. Land in tail-low attitude
- 11. Egress Aircraft

POWER LOSS IN FLIGHT

- 1. Best Glide 80 MPH
- 2. Carb Heat ON
- 3. Best Landing Location CHOOSE
- 4. Fuel Selector CHECK
- 5. Mixture FULL RICH
- 6. Ignition Switch CHECK ALL
 - a. Consider restarting engine if no damage suspected
- 7. Master ON
- 8. Fuel Primer LOCKED
- If no restart, execute FORCED LANDING checklist

ENGINE FIRE IN FLIGHT

- Maintain Aircraft Control
- 2. Mixture IDLE/CUTOFF
- 3. Fuel Selector OFF
- 4. Cabin Heat/Air PUSH OFF
- 5. Master Switch OFF
- 6. Airspeed 120 MPH or as needed
- 7. Execute FORCED LANDING checklist

FORCED LANDING

- 1. Best Glide 80 MPH
- 2. Best Landing Location CHOOSE
- 3. Mixture IDLE/CUTOFF
- 4. Squawk 7700
- 5. Radio DECLARE EMERGENCY
- 6. Seat Belt Shoulder Harness CHECK
- 7. Flaps AS NEEDED
- 8. Master and Ignition **OFF**
- 9. Doors UNLATCH
- 10. Land in tail-low attitude

ELECTRICAL FIRE IN FLIGHT

- 1. Maintain Aircraft Control
- 2. Master Switch OFF
- 3. Cabin Heat/Air PUSH OFF
- 4. Source of fire TURN OFF
- 5. Master Switch ON
- 6. If no fire **VENTS OPEN**
- 7. Land as conditions permit

ENGINE FIRE DURING START

- 1. Continue cranking engine
- 2. If started, 1700 RPM 1-2 minutes, then shut down.
- 3. If not started
 - a. Mixture IDLE/CUTOFF
 - b. Fuel Selector OFF
- c. Ignition **OFF**
- d. Master **OFF**e. Egress Aircraft

ICING

- 1. Maintain Aircraft Control
- 2. Pitot Heat ON
- 3. Carb Heat **ON**
- 4. Cabin Heat PULL ON
- 5. Notify ATC
- 6. Consider 180-degree turn
- 7. Descend to lower altitude
- 8. Increase engine speed
- Flaps **DO NOT LOWER** Land at faster airspeed
- EXCESSIVE RATE OF CHARGE

(Overvoltage light illuminates)

- 1. Maintain Aircraft Control
- 2. Master Switch **OFF**, then **ON**If light comes on again,
- 3. Reduce load on battery
- 4. Land as soon as possible

LOW OIL PRESSURE

- 1. Maintain Aircraft Control
 - Check oil temperature. If normal,
- 2. Land at nearest suitable airfield
- If oil temperature rising,
 3. Execute FORCED LANDING checklist