4.0 Normal Procedures

4.1 Normal Airspeeds

- Recommended Taxi Speed | < 20 kts
- Recommended Take-off Speed | 70 kts
- Recommended Initial Climb Speed | 95 kts
- Recommended Cruise-Climb Speed | 130 kts
- Recommended Cruise Speed (Max. Performance) | Mach 0.6 (retract) / Mach 0.5 (tail)
- Recommended Cruise Speed (Max. Endurance) | Mach 0.53 (retract) / Mach 0.45 (tail)
- Recommended Descent Speed | 220 kts
- Recommended Approach Speed | 140 kts
- Recommended Landing Speed | 70 kts

4.2 Checklists for Normal Procedures

4.2.1 Pre-Flight Inspection

1. Examine Exterior Integrity

4.2.2 Starting Engine

1. Doors - Latched
2. Battery - On
3. Fuel Select - Auto
4. Fuel Pump - On
5. Nav Lights - On
6. Beacon Lights - On
7. Igniter - Auto
8. Prop Control - Forward
9. Inertial Seperator - Open
10. Engine - Verify Propeller and Exhaust Areas Clear
11. Engine Starter - Engage (Hold for 2 seconds)
12. Verify Ng > 16% and Stable
13. Fuel Control - Low Idle
14. Verify ITT < 1060° C; Verify ITT stabilizes < 750° C
15. Generator - Verify Standby
16. Generator - Gen
17. Avionics - On
18. Radios/FMS/Transponder - Set

4.2.3 Before Taxi
1. Fuel Control - Flight Idle
2. Throttle - Beta (if needed to manage taxi speed)

4.2.4 Before Take-Off.
1. Strobe Light - On
2. Landing Light - On
3. Fuel Pump - Verify On
4. Flaps - 10°
5. Igniters - Verify Auto
6. Pitot Heat - On
7. Rudder/Aileron/Elevator Trim - Set

4.2.5 Take-Off
1. Throttle - Raise slowly
2. Verify TRQ < 1600 ft-lbs
3. Verify ITT within limits
4. Verify engine instruments
4.2.6 Climb
1. Climb at airspeed > 90 kts
2. Gear - Up (Retract version only)
3. Flaps - Up
4. RPM - 2000 RPM
5. Inertial sepearator - Closed
6. Monitor engine instruments
7. Climbing though 10,000 feet
   1. Oxygen Masks - Don
   2. Landing Lights - Off
   3. Fuel pump - Off

4.2.7 Cruise
1. RPM / TRQ - Set
2. Monitor Engine Instruments

4.2.8 Descent
1. Engine RPM / TRQ - Set
2. Descending through 10,000 feet
   1. Oxygen Masks - Doff
   2. Landing Lights - On
   3. Fuel Pump - On
3. Approach Details - Set
4. Fuel Select - Auto
5. Pitot Heat - On
6. Igniters - Auto
7. Inertial Separator - Open

4.2.9 Approach
1. Clearance - Received
2. Recommended Approach Speed - 140 kts
3. Flaps - 10

4.2.10 Landing
1. Flaps - 20
2. Gear - Down (Retract Version)
3. Approach - Stabilize
4. Flaps - Full
5. Landing Speed - 70 kts

4.2.11 Go-Around
1. Torque - 1600 ft-lbs
2. Prop Lever - Full
3. Gear - Up
4. Flaps - Up

4.2.12 After Landing
1. Strobe lights - Off
2. Landing Lights - Off (Unless Night)
3. Flaps - Up
4. Fuel Pump - Off
5. Transponder - Stby
6. Pitot Heat - Off

4.2.13 Engine Shut-Down
1. Avionics - Off
2. Generator - Off
3. Fuel Select - Off
4. Igniter - Off
5. Throttle - Idle
6. Fuel Control - Cutoff
7. Prop Lever - Feather
8. Lights - Off
9. Battery - Off