PMDG Douglas DC-6

Flight Compartment Check – Pre-Board

Parking Brake……SET
Doors……OPEN
Tug & Push Bar……ACTIVATE
Main & all circuit breakers (Shift + A, 3 Times)……SET
Inverter Circuit Breakers (Same Panel)……ON
“BATT. & GND. PWR.” Switch (A x 4)……ON
Battery Selector Switch (Same Panel)……GROUND POWER
Internal and External Lights (A x 4)……SET
NO SMOKING” and “SEAT BELT” Signs (Same Panel)……ON
Fuel Booster Pump Switches (Same Panel)……OFF
Inverter Switches—All Three (Same Panel)……ON
Auxiliary Blower (Same Panel)……OFF
Voltage Regulator Overheat Warning Light (Same Panel)……OFF
Emergency Instrument Switch (Same Panel)……OFF
Generators (Same Panel)……ON
Ignition Switches (Same Panel)……OFF
Water Injection Pump Switches (Next Panel Up)……OFF
Fuel Booster Pump Circuit Breakers (Same Panel)……ON
Propeller emergency de-icing controls (Same Panel)……OFF-DOWN
Cowl Flaps (Same Panel, Bottom)……FULL OPEN
Cabin Attendant’s Temperature Control Panel (Shift + A x 4)..SET
Cooling Turbine Switch (Same Panel)……AS DESIRED
Cabin Pressure Regulator (Same Panel)……SET
Door Warning Lights (Same Panel)……OFF
A-C Voltmeter Selector (Same Panel-Rt.)……SET TO ENG. INST
D-C Voltmeter Selector (Same Panel-Rt.)……SET TO BUS
Bus Voltage……NORMAL
Heater Fuel Switch (A x 1)……NORMAL (Down)
Heater, Fuel, And Ignition Selector Switches (Same Panel)……SYSTEM NO. 1 (Down)
Cabin Heater Master Switch (Same Panel)……ON (Up)
Airfoil Deicer Heaters Master Switch (Same Panel)……OFF
Propeller Deicer Switch (Same Panel)……OFF
Carburetor Deicer Switches (Same Panel)……OFF
Cockpit Heat Control (Same Panel)……AS DESIRED
Windshield Heat Control (Same Panel-LFT.)……AS REQUIRED

Anti-Icing Fluid Quantity (A x 4)……CHECK
Hydraulic Fluid Quantity (Same Panel)……CHECK
W/A Quantity (Same Panel)……..CHECK (must be full for "wet" take-off)
Fuel Quantity (Same Panel)……CHECK
Oil Quantity (Same Panel)……CHECK
Landing Light Switches (Same Panel)……RETRACT and OFF
Engine Supercharger Switches (Same Panel)……..LOW
Fire Extinguisher Selector Valve And Discharge Handles……...IN (Forward)
Clocks and Altimeters……SET
Hyd. Sys. By-Pass Control Lever (A x 6)……ON (Down)
Aux. Hyd. Pump (Same Panel)……..ON-UP
Aux. Hyd. Pump Selector Valve (Same Panel-Floor)……BRAKE SYSTEM" (Forward)
Hydraulic System Pressure (A x 8 – Rt. Of FO)……2600 to 3050 psi
Emergency Air Brake Pressure (Same Location)……1500 (±50) psi
Aux. Hyd. Pump (A x 6)……..OFF - DOWN
Fuel Tank Selector Valve Controls……MAIN (Forward)
Cross Feed and Auxiliary Tank Valve Controls……..OFF (Forward)
Propeller Master RPM Control Lever……FORWARD (Take-Off Position)
Engine Master Controls (A x 5)……NO. 2 or NO. 3 (AUTO)
Throttles……..1/10 to 1/4 open (Maximum)
Auto-Pilot……OFF
Mixture controls……IDLE CUT-OFF
Fuel / Oil Pressure Warning Switches (A x 8 – Lower FO)……ON
Auto-Pilot Servos……..DISENGAGED
Landing Gear Control Lever……..DOWN (Green Indicator Lights-ON)
Elevator Trim (A x 5) (2° Up)……SET
Carburetor Air Temperature Controls……..COLD (Down)
Wing Flaps Control Lever……UP
Com & Nav Frequencies (A x 4)……SET
VOR Course……SET

Starting Engines

Start Engines in Order: 3-4-2-1

Fuel Loaded: _____lbs.

Push Back……..SHIFT + P
Fuel Booster Pumps……..LOW
Engine Selector Switch……TO ENGINE BEING STARTED
Safety Switch……ON

Start Switch……ON
Prime Switch (After 3 Blades)……ON (As Required)
Ignition Switch (After 6 Blades)……BOTH
Boost Switch……ON
Mixture Control (After Engine Fires-12 Blades)……AUTO RICH
Throttle……800 to 1000 RPM
Fuel Booster Pump……OFF
GPU……Batt Selector to PLANE BATTERY
Hydraulic System Pressure (A + 7 on Rt.)……CHECK (2600 to 3050 psi)
Throttles……1000 RPM
Engine and Supercharger oil temperatures (Shift + A x 4 on Lft.)……> MINIMUM

Engine Run-Up –Rwy

Gust Lock……DISENGAGE
Throttle……1700 rpm
Propeller……CYCLE
Throttle……MAN PRESS (Same as Field Pressure)
Fuel and Oil Pressures……CHECK
Cylinder and Oil Temperatures……CHECK
Generator (Amperage and Voltage) (Shift + A x 4)……CHECK
Inverter Voltage (Same Panel)……CHECK
Magnetos (<100 rpm drop)……CHECK
W/A Injection (To Bleed System-Check Pressures)……ON Then OFF
BMEP Indicators……CHECK
Cabin Supercharger (Oil Pressure and Temperature)……CHECK
Throttle……1000 RPM
Pitot and Airscoop Heater Amperage (A x 4)……ON & CHECK

Pre Take-Off

Nav. Lights……STEADY
Flight instruments……CHECK
Wing Flaps……20°
Cowl Flaps……CHECK 4° OPEN
Fuel booster pumps……LOW
Air Conditioning Controls……SET
Gust Lock……DISENGAGED
Controls……FREE
Mixture……CHECK AUTO RICH
Elevator Trim (2° Up)……CHECK

Take-Off

Flt #_____ Winds: _____ Time: _____ Fuel Qty: _____lbs

CHT (<232°)……CHECK
W/A Injection Switches (For Wet Takeoff)……..……..AS REQUIRED
Throttles (Dry – 55”/ Wet – 59.5”) ……..……...SET (2 Min. Max)
Rotate – V2 (See Chart)……..……..……_____ knots
Initial Climb……..130 knots
Landing Gear (on signal)……..……UP
Power (on signal) (140 knots)……..……METO (48” @ 2600)
Wing Flaps (on signal) (V^2 + 15 knots)..……..……..UP _____knots
Landing Gear Control Lever (lights out)……..……..NEUTRAL (Right Click)

Climb

W/A Injection Switches……..OFF
Power (Per Power Chart: _____)……..……SET
Speed – 155 knots……MAINTAIN
Cowl Flaps……..……CHECK 4° OPEN
Cylinder Head Temperature (<260°)……..……CHECK
Landing Lights (<173 knots)…..……..……..…RETRACT and OFF
Windshield Heat Control……SET
Cabin Supercharger Oil Pressure and Temperature……..……CHECK
Cabin Supercharger Airflow Indicators……..…CHECK
Cabin Rate Of Climb And Cabin Altitude……..…CHECK
Blower (Above 16,000’ – Reduce MP 50%)……..……HIGH

Cruise

Time: _____ Fuel Qty: _____lbs

Cruise Power (per chart: _____)……SET
Mixture……..……..AUTO LEAN
Hydraulic System By-Pass Control……..……..OFF (up)
Cowl flaps……..……..SET (0° to -1°)
Windshield Heat Control……..……...SET
SEAT BELT and NO SMOKING signs……..……..……OFF

Fuel Tanks (See Below)……AS REQUIRED
Cabin Pressure Regulator (Shift + A x 4)……SET START MARKER to Dest. Alt.
Autopilot (A x 5 & A x 7)……AS REQUIRED
Engine Superchargers……SHIFT BLOWERS EVERY TWO HOURS

Fuel Management

Takeoff and Climb = MAIN Tanks
1/3 of Cruise = ALT 2/3 = Eng 1+4 ALT/2+3 MAIN 3/3 = Eng 2+3 MAIN, XF-1&2/3&4
Descent = MAIN Tanks

Descent

Time: _____ Fuel Qty: _____lbs

Power (26" and 2400rpm)……SET
Engine Superchargers (Below 12,000')……LOW
Windshield Heat Control……SET
Altimeters (<18,000')……SET
Fuel Tank Selectors……MAINS
Cross-Feed Controls……OFF
Carburetor Air Temperature Controls……AS REQUIRED
Hydraulic System By-Pass Control……ON (down)

In Range

Wing flaps (<174knots)……20°
Landing Gear (<174 knots)……DOWN & 3 GREEN
Landing lights (< 147 knots)……EXTEND and ON

Approach (Max Landing Wt. – 80,000lbs)

CONDITION	IAS (knots)	FLAP
Downwind leg	To 156	20°
Base leg	121 to 139	30°
Final leg	104 to 112	50°

Field boundary	91 to 95	50°

Airport Elev: _____ Flt # _____ Rwy: _____ Wind: _____

SEAT BELT and NO SMOKING Signs……..….ON
Mixture……..AUTO RICH
Carburetor Air Temperature Controls……..….COLD
Propeller……..2400 RPM
Cowl Flaps……4° open
Wing flaps (<136 knots)……..Full down

Landing Roll

Brakes and Propeller Reversing……..AS REQUIRED
Cowl flaps……OPEN
Wing flaps……UP
Propellers……FULL FORWARD
Cabin……CHECK DEPRESSURIZED
Propeller De-Icer Switch……..….OFF
Gust Lock……..……..……..…….ENGAGED

Parking & Shut-Down

Time: _____ Fuel Qty: _____lbs

Parking brakes……..ON
Oil Dilution……..……AS REQUIRED
Mixture controls……..……..IDLE CUT-OFF
Fuel Tank Selector Controls……..……..……OFF
Ignition switches……CHECK OFF
Seat Belt Sign……..……OFF
Inverter Switches……...OFF
Generator Switches……..……..……OFF

After De-Boarding

Electrical Switches and Equipment Controls……..……OFF
Doors & Windows……..……..CLOSE