

DOUGLAS DC-3

MEMORY ITEMS / QUICK REFERENCE PROCEDURES

ENGINE FIRE DURING START

F STARTER CONTINUE START
 C PRIMER RELEASE
 C MIXTURE CONTROL (AFF. ENG) ICO
 F FUEL BOOST PUMP OFF
 C&F INSTRUMENTS (AFF. ENG) MONITOR

IF FIRE CONTINUES:

C THROTTLE CLOSED
 C STARTER RELEASE
 C COWL FLAPS CLOSED
 F ENG FIRE BOTTLE SELECT AFF. ENG
 F FIRE BOTTLE T HANDLE PULL

IF FIRE CONTINUES:

C AIRCRAFT EVACUATE

EVACUATION

F THROTTLES CLOSED
 F MIXTURE CONTROLS ICO
 F IGNITION SWITCHES OFF
 F IGNITION MASTER OFF
 F FUEL BOOST PUMPS OFF
 F FUEL TANK SELECTORS OFF
 F FIREWALL SHUTOFFS OFF
 F BATTERY SWITCH OFF
 C&F AIRCRAFT EVACUATE

LANDING GEAR FIRE

1. TURN AIRCRAFT INTO WIND.
2. CALL TOWER FOR ASSISTANCE.
3. SHUTDOWN ENGINE ON SIDE OF AIRCRAFT NOT AFFECTED BY FIRE.
4. INCREASE POWER (MIN 2000 RPM) ON REMAINING ENGINE.
5. SHUT DOWN REMAINING ENGINE WHEN EQUIP. IS IN POSITION TO FIGHT FIRE.

ABORTED TAKEOFF

PF THROTTLES CLOSED
 PF DIRECTIONAL CONTROL MAINTAIN
 PF BRAKES APPLY

F ATC ADVISE
 F PASSENGERS ADVISE STATUS

ENGINE FIRE OR FAILURE DURING TAKEOFF/ INITIAL CLIMB

PF MIXTURE CONTROLS AUTO RICH
 PF PROP CONTROLS FULL FORWARD
 PF THROTTLES 48 IMP
 PF **CALL** GEAR UP
 PF **CALL** FLAPS UP
 PF AFFECTED ENGINE IDENTIFY
 PF AFFECTED ENGINE VERIFY
 PF AFFECTED ENGINE FEATHER
 PF **CALL** CHECK FOR FIRE

IF FIRE EXISTS:

PNF MIXTURE CONTROL (AFF. ENG) ICO
 F COWL FLAPS CLOSED
 PNF FIREWALL SHUTOFF (AFF. ENG) OFF
 PNF AFFECTED ENG FIRE BOTTLE SELECT
 PNF FIRE BOTTLE T HANDLE PULL

CLEANUP ITEMS:

PNF IGNITION SWITCH (AFF. ENG) OFF
 PNF GENERATOR (AFF. ENG) OFF
 PNF FUEL BOOST PUMP (AFF. ENG) OFF
 PNF COWL FLAPS (AFF. ENG) CLOSED / OFF
 PNF COWL FLAPS (OPERATIVE ENG) AS REQD
 PNF FUEL TANK SELECTOR (AFF. ENG) OFF
 PNF FIREWALL SHUTOFF (AFF. ENG) CKD/OFF
 C&F FUEL BALANCE MAINTAIN
 C&F CHT (OPERATIVE ENG) MONITOR
 C&F OIL TEMP (OPERATIVE ENG) MONITOR

PROPELLER OVERSPEED DURING TAKEOFF

PNF THROTTLE (AFF. ENG) REDUCE
 PNF PROP CONTROL (AFF. ENG) REDUCE
 PF AIRSPEED V2
 PNF FLAPS UP
 PNF LANDING GEAR UP
 PNF RPM CONTROL WITH FEATHER BUTTON

IF PROP UNCONTROLLABLE:

PNF AFFECTED ENGINE FEATHER
 PNF MIXTURE CONTROL (AFF. ENG) ICO

CLEANUP ITEMS:

PNF IGNITION SWITCH (AFF. ENG) OFF
 PNF GENERATOR (AFF. ENG) OFF
 PNF FUEL BOOST PUMP (AFF. ENG) OFF
 PNF COWL FLAPS (AFF. ENG) CLOSED / OFF
 PNF COWL FLAPS (OPERATIVE ENG) AS REQD
 PNF FUEL TANK SELECTOR (AFF. ENG) OFF
 PNF FIREWALL SHUTOFF (AFF. ENG) CKD/OFF
 PNF PROP CONTROL (AFF. ENG) FULL AFT
 PNF THROTTLE (AFF. ENG) CLOSED
 C&F FUEL BALANCE MAINTAIN
 C&F CHT (OPERATIVE ENG) MONITOR
 C&F OIL TEMP (OPERATIVE ENG) MONITOR

CONSULT THE PILOT'S HANDBOOK – CHAPTER 1 FOR THE FOLLOWING PROCEDURES:

LANDING GEAR MALFUNCTIONS
 HYDRAULIC SYSTEM FAILURE
 ENGINE DRIVEN FUEL PUMP FAILURE
 BROKEN FUEL LINE
 FIRE CONTROL
 ANTI-ICING
 OPERATING IN SEVERE ICING CONDITIONS

ENGINE FIRE/ FAILURE/ SHUTDOWN - ENROUTE -

PF MIXTURE CONTROLS AUTO RICH
 PF PROP CONTROLS FULL FORWARD
 PF THROTTLES AS REQD
 PF FLAPS UP
 PF LANDING GEAR UP
 PF AFFECTED ENGINE IDENTIFY
 PF AFFECTED ENGINE VERIFY
 PF AFFECTED ENGINE FEATHER
 PF MIXTURE CONTROL (AFF. ENG) ICO

IF FIRE EXISTS:

F COWL FLAPS CLOSED
 PNF FIREWALL SHUTOFF (AFF. ENG) OFF
 PNF ENG FIRE BOTTLE SELECT AFF. ENGINE
 PNF FIRE BOTTLE T HANDLE PULL

CLEANUP ITEMS:

PNF IGNITION SWITCH (AFF. ENG) OFF
 PNF GENERATOR (AFF. ENG) OFF
 PNF FUEL BOOST PUMP (AFF. ENG) OFF
 PNF COWL FLAPS (AFF. ENG) CLOSED / OFF
 PNF COWL FLAPS (OPERATIVE ENG) AS REQD
 PNF FUEL TANK SELECTOR (AFF. ENG) OFF
 PNF FIREWALL SHUTOFF (AFF. ENG) CKD/OFF
 C&F FUEL BALANCE MAINTAIN
 C&F CHT (OPERATIVE ENG) MONITOR
 C&F OIL TEMP (OPERATIVE ENG) MONITOR

ELECTRICAL SMOKE OR FIRE

PF LAND AS SOON AS POSSIBLE
 PNF GENERATOR SWITCHES OFF
 PNF BATTERY SWITCH OFF

AFTER FIRE IS OUT

PNF ELECTRICAL SWITCHES OFF
 PNF AVIONICS MASTER SWITCH OFF
 PNF BATTERY SWITCH BATTERY
 PNF L GENERATOR SWITCH ON
 PNF R GENERATOR SWITCH ON
 PNF ELEC. SWITCHES (ONE AT A TIME) ON
 PNF AVIONICS MASTER SWITCH ON

CABIN SMOKE OR FIRE

PF LAND AS SOON AS POSSIBLE
 PNF COCKPIT/CABIN DOOR CLOSED
 PNF RAM AIR VALVE AS REQD
 F COCKPIT HEAT VALVE COLD
 F CABIN AIR TEMP CONTROL COLD
 PNF ATTEMPT TO EXTINGUISH FIRE

PROPELLER OVERSPEED - ENROUTE -

PF AIRSPEED REDUCE
 PF THROTTLE (AFF. ENG) REDUCE
 PF PROP CONTROL (AFF. ENG) REDUCE
 C&F AFFECTED ENGINE MONITOR

IF OVERSPEED CONTINUES:

PNF AFFECTED ENGINE FEATHER
 PNF MIXTURE CONTROL (AFF. ENG) ICO

CLEANUP ITEMS:

PNF IGNITION SWITCH (AFF. ENG) OFF
 PNF GENERATOR (AFF. ENG) OFF
 PNF FUEL BOOST PUMP (AFF. ENG) OFF
 PNF COWL FLAPS (AFF. ENG) CLOSED / OFF
 PNF COWL FLAPS (OPERATIVE ENG) AS REQD
 PNF FUEL TANK SELECTOR (AFF. ENG) OFF
 PNF FIREWALL SHUTOFF (AFF. ENG) CKD/OFF
 PNF PROP CONTROL (AFF. ENG) FULL AFT
 PNF THROTTLE (AFF. ENG) CLOSED
 C&F FUEL BALANCE MAINTAIN
 C&F CHT (OPERATIVE ENG) MONITOR
 C&F OIL TEMP (OPERATIVE ENG) MONITOR

ENGINE RE-START/ UNFEATHERING - IN FLIGHT -

PF AIRSPEED MAX 130 KIAS
 PNF FUEL TANK SELECTOR MAIN TANK
 PNF FIREWALL SHUTOFF LOCKED / ON
 PNF PROP CONTROL FULL AFT
 PNF THROTTLE AS REQD
 PNF STARTER ENGAGE (11 BLADES)
 PNF STARTER RELEASE
 PNF IGNITION SWITCH (AFF. ENG) BOTH
 PNF PROP FX BUTTON OPERATE TO 800 RPM
 PNF MIXTURE AUTO RICH
 C&F OIL PRESSURE MONITOR
 C&F THROTTLE 18 IMP

**CAUTION: UNLESS A GREATER EMERGENCY
EXISTS, ATTEMPT TO OBTAIN NORMAL OPERATING
TEMPERATURES AND PRESSURES BEFORE
RESTORING CRUISE POWER.**

C&F CHT MONITOR
 C&F COWL FLAPS AS REQD
 C&F OIL TEMP MONITOR
 F GENERATOR ON

HEATER FIRE

F MAIN HEATER SWITCH OFF
 PNF RAM AIR VALVE CLOSE
 PNF CO2 DISCHARGE

EMERGENCY DESCENT

PF THROTTLES CLOSED
 PF AIRSPEED AS REQD
 PNF ATC NOTIFY
 PNF TRANSPONDER 7700
 PF LANDING GEAR AS REQD
 PF FLAPS AS REQD

SMOKE EVACUATION

F RAM AIR VALVE CLOSED
 F COCKPIT HEAT VALVE COLD
 F CABIN AIR TEMP CONTROL COLD
 F AFT EMERGENCY EXIT WINDOW AS REQD
 F CABIN TO COCKPIT DOOR AS REQD
 F F/O SLIDING WINDOW OPEN

SINGLE ENGINE GO-AROUND

PNF PROP FULL FORWARD
 PF THROTTLE 48 IMP
 PF AIRSPEED V2
 PNF FLAPS UP
 PNF LANDING GEAR UP

HYDRAULIC PRESSURE/ FLUID LOSS

PNF GEAR/FLAP HANDLES NEUTRAL
 F COWL FLAPS OFF
CONTINUED IN POM

EMERGENCY BRAKING

(HYDRAULIC PRESSURE LESS THAN 675 psi)

F LANDING GEAR HANDLE NEUTRAL
 F FLAP HANDLE NEUTRAL
 C BRAKE PEDALS DEPRESS
 F HAND PUMP ACTUATE