ECAM PHILOSOPHY

DETECTION

ECAM ACTIONS

ECAM PROCEDURE

SYSTEM DISPLAY (if required)

STATUS

SITUATION ASSESSMENT / DECISION



PF

PNF

1. DETECTION

First pilot who notices:

MASTER CAUTION/MASTER WARNING......RESET

ANNOUNCE....."TITLE OF FAILURE"

FLIES THE AIRCRAFT NAVIGATES

CONSIDER AUTOMATION USE: A/THR, AP

> If failure at takeoff:

NO ACTION until 400ft AGL, with safe flight path established.

PF PNF

2. ECAM ACTIONS

ORDER...."ECAM ACTIONS"

ECAMCONFIRM (using SD and overhead panel)

ECAM ACTIONS COMPLETE......CHECK

CONFIRM...... CLEAR "name of SYS"?

ECAM ACTIONS.....PERFORM

REQUEST......CLEAR "name of SYS"?

ECAM.....CLEAR

This is to be repeated for each failure displayed on the ECAM.



LAND ASAP

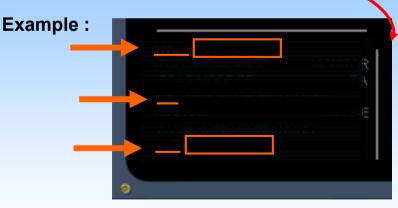


*Task sharing:

As soon as he announced "ECAM ACTIONS", the PF is in charge of communications, until all the ECAM actions have been completed.

Both pilots should confirm irreversible/guarded actions





PF

PNF

3. SYSTEM DISPLAYS

If a SYSTEM page is displayed on the lower ECAM screen:

SYSTEM PAGE DISPLAYED.....ANALYSE

REQUEST.....CLEAR "name of SYS"?

CONFIRM...... CLEAR "name of <u>SYS</u>"?

SYSTEM DISPLAY.....CLEAR

This is to be repeated until all the displayed system pages have been reviewed, and the STATUS page is displayed.

PNF

4. STATUS

CONFIRM.....READ STATUS

1 STATUSREAD

REQUEST.....STATUS?

LIMITATIONS.....CHECK

LANDING DIST&SPEED INCREMENT..CHECK

INOP SYS.....CHECK

REQUEST......CLEAR STATUS?

STATUS......CLEAR

ANNOUNCE..... ECAM ACTIONS COMPLETED

RETURN TO NORMAL TASK SHARING

Landing distance and approach speed computation:

CONFIRM......CLEAR STATUS

•For complex procedures (dual hydraulic failure or electrical emergency configuration): Use SUMMARY







Applying ECAM procedure ensures

flight safety.

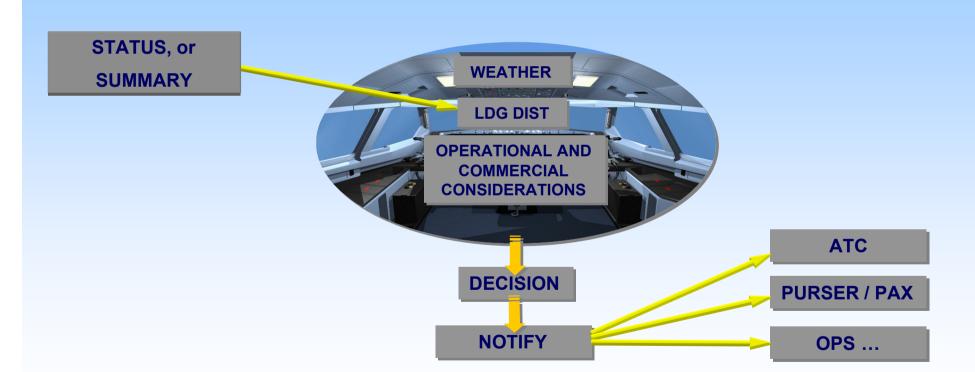
Review FCOM procedure:

However, referring to FCOM 3.02, if time permits, may provide useful additional information.

•For other cases:



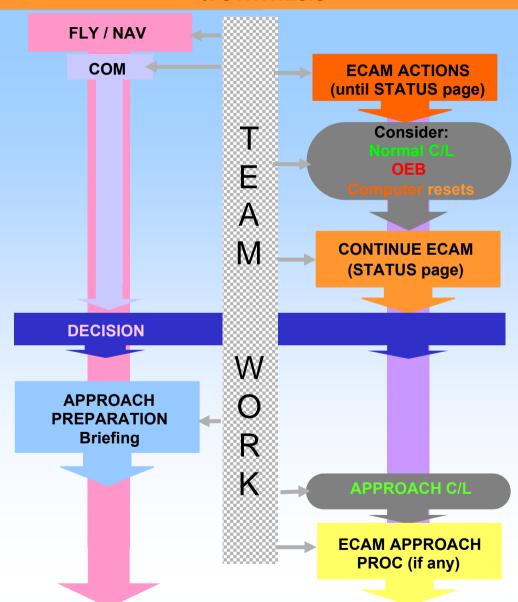
5. SITUATION ASSESSMENT/DECISION



PF

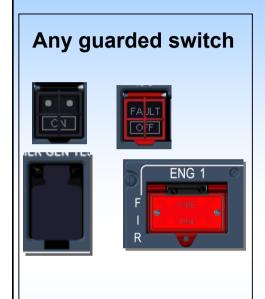


6. SYNTHESIS



IRREVERSIBLE / GUARDED ACTIONS CONFIRMATION

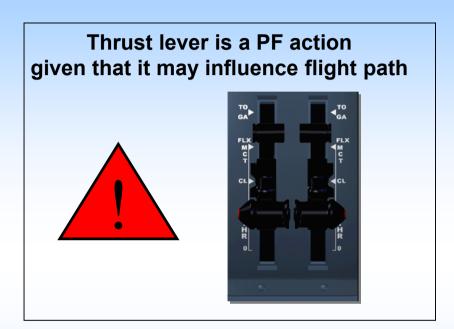
Confirmation from both pilots is required, when the action concerns:





How to proceed for confirmation?





How to proceed for confirmation?

| PNF |
|---------------|
| |
| |
| ACTIONCHECK |
| ANSWERCONFIRM |
| |
| |

PNF

2. ECAM ACTIONS

ORDER...."ECAM ACTIONS"

ECAMCONFIRM (using SD and overhead panel)

ECAM ACTIONS.....PERFORM

REQUEST......CLEAR "name of SYS"?

ECAM ACTIONS COMPLETE.....CHECK

CLEAR CONFIRM

Depending on the failure, LAND ASAP , or LAND ASAP , may be displayed, in

the right column of the ECAM procedure.

RED LAND ASAP

: Land at the next suitable airport.

AMBER LAND ASAP

: Assess the seriousness of the situation and consider the selection of a suitable airport.

LANDING DISTANCE COMPUTATION





APPR SPD-LDG DIST CORRECTIONS FOR FAILURES

Determine the landing distance coefficient.

| LDG CONF - APPR SPD - | FLAPS LEVER | APPR SPD: INCREMENT TO VREF (\(\triangle \text{VREF}\)) | LDG DIST |
|--------------------------|-------------|---|-------------|
| LDG DIST | POSITION | | CONF FULL |
| CORRECTIONS FOR FAILURES | FOR LDG | | MULTIPLY BY |
| | _ | | |

| eve | FAILURE A | NORM (1) | _ | 11 |
|-----|-----------|----------|----|-----|
| 313 | FAILURE B | 3 | 10 | 1.2 |



LANDING DISTANCE WITHOUT AUTOBRAKE – CONF FULL

Determine the landing distance in **CONF FULL** without failure

Apply the coefficient determined above to this distance.

LANDING DISTANCE WITHOUT AUTOBRAKE

The actual landing distance is the distance to come to a complete stop from a point 50 ft above the landing surface. No margin is included in this distance.

CONFIGURATION FULL

| ACTUAL LANDING DISTANCE (METERS) | | | | | | | | | |
|----------------------------------|-----|-----|-----|-----|------|------|------|------|------|
| WEIGHT (1000 KG) | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 |
| DRY | 610 | 630 | 660 | 700 | 740 | 800 | 850 | 920 | 990 |
| WET | 840 | 930 | 223 | 990 | Deur | 1110 | 1180 | 1230 | 1300 |

(1) If NORM is indicated for landing configuration, and if CONF 3 is used, apply an additional 1.1 coefficient to the landing distance.

APPROACH SPEED COMPUTATION

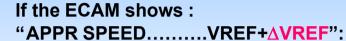


WIND CORRECTION

$VAPP = VREF + \Delta VREF + WIND CORRECTION (if applicable)$

∆VREF is given:

- > On the ECAM, and
- > On the QRH



LDG CON





- > Select CONF FULL
- > Read VREF = VLS CONF FULL
- ➤ Add △VREF to VREF
- > Add wind correction, if applicable
- > Enter VAPP manually





If LDG in CONF 3:

> Select CONF 3

Note: This computation must be done according to the appropriate weight at destination, so, with F-PLN properly updated.

PNF

4. STATUS

| REQUEST | STATIL | 0 |
|---------|--------|---|
| REQUEST | DIAIU | 9 |

CONFIRM......READ STATUS STATUS STATUSREAL

The PNF should not start reading the STATUS before confirmation from the PF.

For any priority reason Status analysis can be postponed by PF e.g. C/L, ATC communication...

In some cases, some other checks or actions may have to be performed, before reading the STATUS:

- ➤ In case of failure at takeoff, the NORMAL TAKEOFF C/L has to be performed
- > OEB (if applicable) is to be applied at that time (Refer to QRH 6.00),
- Computer resets may be considered (Refer to QRH 2.00)

