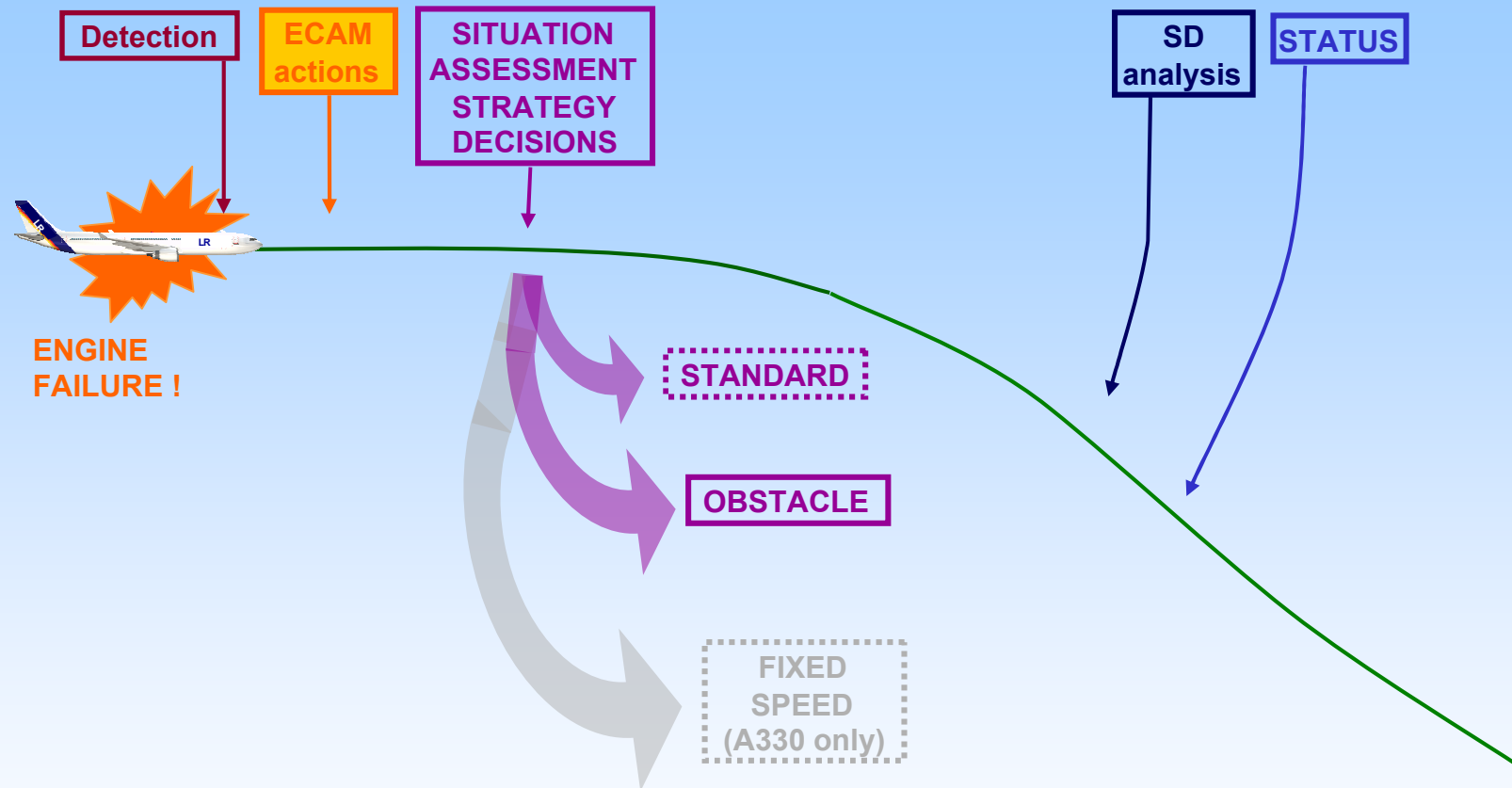


ENGINE FAILURE IN CRUISE (WITH DAMAGE)



PF

PNF

1. ENG 1 FAIL

DETECTION

FLIES THE AIRCRAFT

NAVIGATES ⇒ **LAND ASAP**...Short term decision

CONSIDER AUTOMATION USE

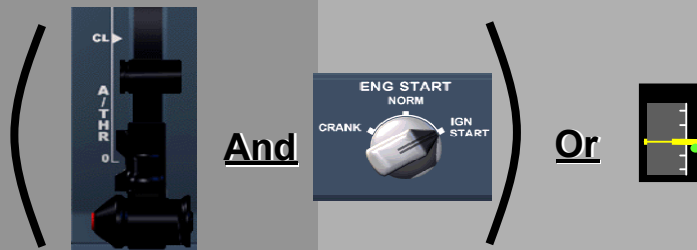
THRUST LEVERS.....MCT

A/THR.....OFF 

ECAM ACTIONS

ECAM PROCEDURE

STOP ECAM actions when :



COMMUNICATES

Deceleration Not below Green Dot



PF

PNF

2. OBSTACLE STRATEGY



A330



A340

For descent :

GREEN DOT.....SET AND PULL

DRIFT DOWN CEILING ALT.....SET AND PULL

During descent to Drift Down Ceiling ...

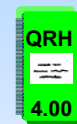


Thrust MCT

➤ Speed controlled by the elevator



Check GREEN DOT GROSS CEILING



A330



A340

REC MAX = EO LRC Ceiling

➤ EO CLR Prompt



PF

PNF

3. ECAM ACTIONS... DAMAGE

ORDER....."CONTINUE ECAM"

ECAM ACTIONS.....CONTINUE

ECAM ACTIONS

ECAM PROCEDURE

DAMAGE ?

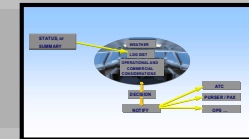


SYSTEM DISPLAY

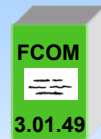
STATUS

RETURN TO NORMAL TASK SHARING

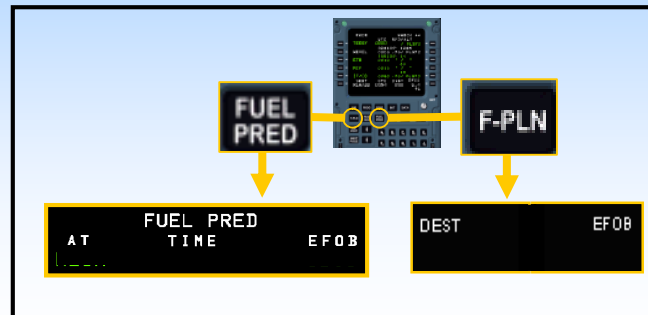
DECISION



➤ Consider APU Start
APU normal flight envelope :



➤ DIST & FUEL computations to Landing



PF

PNF

4. OBSTACLE STRATEGY

When obstacles are cleared :

LR CEILING.....SET AND PULL

LR SPEED.....SET

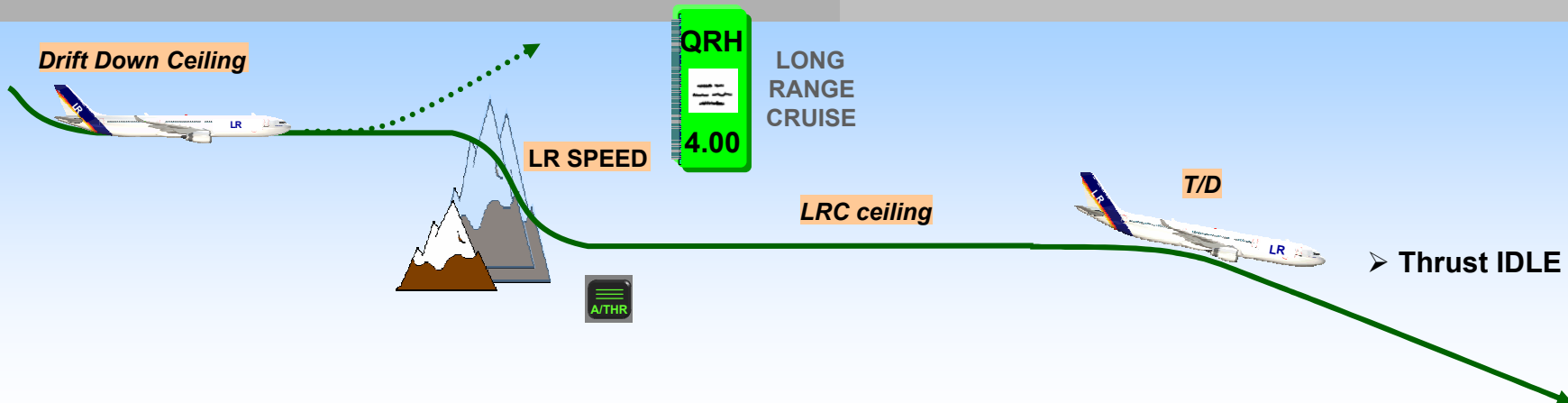
Reaching LR Ceiling

A/THR.....ON

Descent to landing

RESUME MANAGED MODES

If obstacle : Continue Drift Down Procedure



PF

PNF

1. ENG 1 FAIL

DETECTION

FLIES THE AIRCRAFT

NAVIGATES ⇒ **LAND ASAP**...Short term decision

CONSIDER AUTOMATION USE

THRUST LEVERS.....MCT

A/THR.....OFF 

A/THR is set to OFF immediately to avoid thrust reduction to IDLE

ECAM ACTIONS

ECAM PROCEDURE

STOP ECAM actions when :



COMMUNICATES

Deceleration Not below Green Dot





STANDARD

No obstacle and time constraint

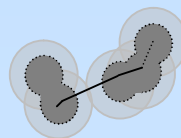
OBSTACLE

To ensure the margins over obstacles



FIXED SPEED

ETOPS constraint



*As established
before dispatch,
use:*

M.82 / 330 KT

Or

M.82 / 310 KT



STANDARD

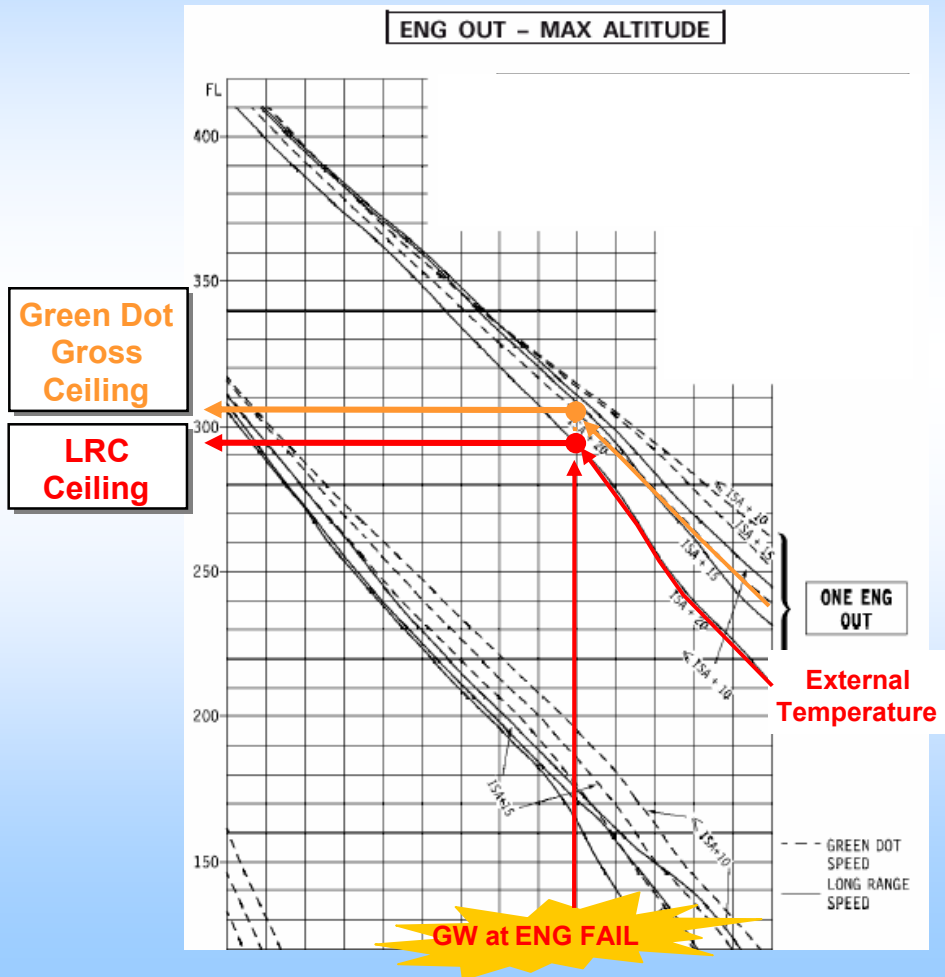
No obstacle and time constraint

OBSTACLE

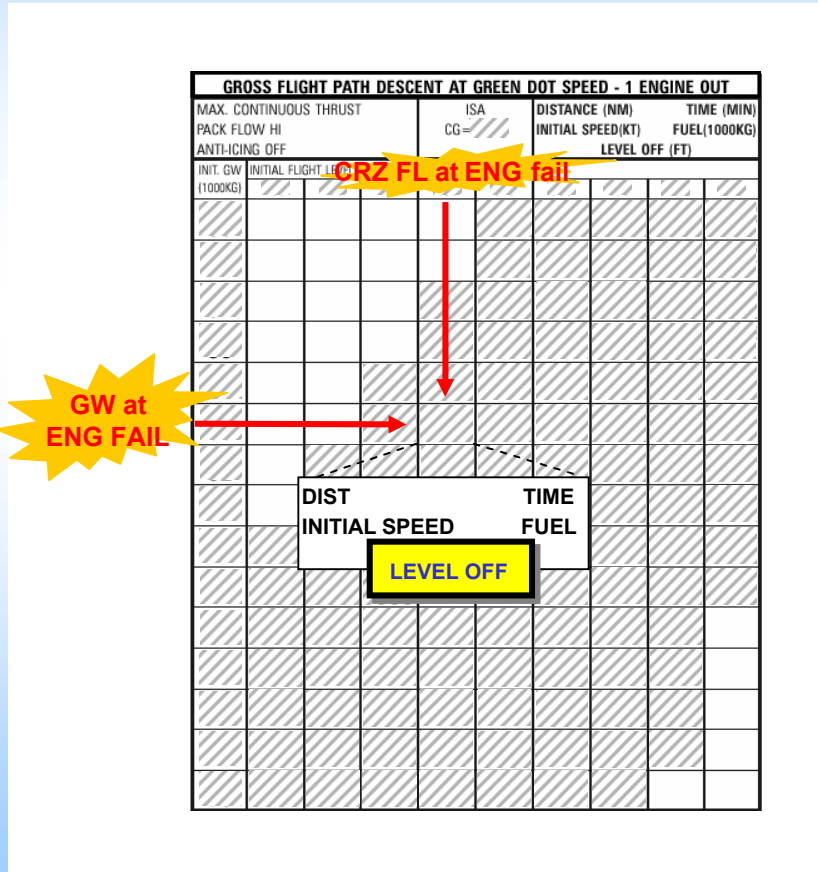
To ensure the margins over obstacles



LRC and Green Dot Gross Ceiling quick check



Green Dot Gross Ceiling precise check



PF

PNF

2. OBSTACLE STRATEGY



A330



A340

For descent :

GREEN DOT.....SET AND PULL

DRIFT DOWN CEILING ALT.....SET AND PULL

During descent to Drift Down Ceiling ...



Thrust MCT

➤ Speed controlled by the elevator



Check GREEN DOT GROSS CEILING



A330



A340

REC MAX = EO LRC Ceiling

➤ EO CLR Prompt



DEST EO CLR*

if pressed, predictions revert to all engines operative predictions

DAMAGE OR NO DAMAGE ?



CONSIDER ENGINE DAMAGE IF YOU NOTICE :

- High vibration prior to engine stopped, loud noise
- Stall
- Any Abnormal Indication on ENG Page (such as N1 or N2 ~ 0)

⇒ **No attempt of RELIGHT**