

Preflight and Taxi

CAPTAIN	TRIGGER	FIRST OFFICER	
Crew briefing	D-60	No red tag, Logbook review (Signtr, EP-19, ETOPS PDC)	
Flight plan review	Arrive at plane	Not Powered: Power Up, IRU align, Fluids, Interior, Exterior, Aux panel	
Logbook review		Powered: Aux Panel, IRU align, Fluids: Eng Oil, Hyd, O2	
		Interior Insp: 2 cklists, 2 QRHs, MDM, Jep kits, Eng log,	
		Spare EFB mount, Emer Equip (use placard), (Hard	
		QRC)	
PF or PM preflight	D-30	PF or PM preflight (see pg 2)	
Captain preflight		FO preflight	
PDC Verification. WARTS.	By D-10	PDC verification & WARTS brief (if PF)	
	Preflight Checklis	t	
Pre-Pushback msg*	D-8	Start APU *Check msg for: stay at gate for	
Fuel slip / EFSR		Pre-Pushback* & Fuel slip WDR, EFSR, MEL, NOTOC, rwys	
Ext doors closed	FA's ready for push	Ext doors closed (Recirc fans on)	
Hyd elec pumps (R,C,L)		Transponder on	
Main fuel pumps on		Cockpit door locked	
	Pushback Checklis	t	
Verify grd crew ready	Ready for push		
Request push clearance	& Engine Start	(See page 2 for	
Advise grd crew to push*	757: start L eng	Engine Start, Delayed Start,	
Verify cleared to start	767: start R eng	and After Start flows) *Capt: Do then say: "Reacon on	
Command eng start		brakes released, cleared to push.	
	After Start Checklist		
PERF INIT: Acpt/Rjct	WDR Entry	Verify on WDR: flt#, ship#, date, release#	
TAKEOFF REF p2: Accel ht	verification	TAKEOFF REF p1: Accept or Reject	
Compare wts		WDR & FMC agree: ZFW, Flaps, Thrust, CG/Trim,	
V speed bugs:		Rwy/Pos, Vspds, Gross wt	
V1, VR, Vref 30+40,+80		TAKEOFF REF p2: ACCEL HT. Compare wts	
V2 in MCP		V speed bugs: V1, VR, Vref 30+40, Vref 30+80	
"Salute recv'd, flaps "	Prepare for taxi	"Flap lever" (Do and say)	
"Call for taxi"		Call ramp/gnd cntrl for taxi	
External lights		"Clear right"	
Rudder check	Taxiing	STATUS page, Aileron & elevator check	
	Taxi Checklist		
Command eng start	Delayed Eng Start	See page 2	
Delay	Delayed After Start Checklist		
If PF: Takeoff Briefing*	Near runway	PA to PAX *Takeoff Briefing:	
		Transponder - TA/RA Rwy Outside & Inside	
		Packs & Bleeds - as req'd	
		If PF: Takeoff Briefing*	
Bet	ore Takeoff Chec	klist	

Takeoff and Flight

TRIGGER	TASKS, FLOWS, and CHECKLISTS		
Entering Runway	FO: Radar & Packs CA: "Final, Flaps, Fuel" (Final clear, Flaps set, MINTO fuel)		
After Takeoff	PM: Gear Off, APU Off, A/I as req'd, Packs Auto After Takeoff Checklist		
10,000'	Capt: No Smoking - cycle		
18,000'	QNE Capt: External lights Climb Checklist		
TOC & Cruise	Fuel check, Position reports, Seatbelt sign, (see QRC)		
40nm to TOD	ATIS, 2Boxes, 2Bugs, Brakes, Brief PM: Pax PA, (ATIS), LPR, ETOPS Fuel xfeed		
TOD	PM: "P.R.E." Pressurization (Ldg elev), Recall, 'Event' (when power near idle)		
18,000'	QNH (domestic) Capt: External lights Descent Checklist		
10,000'	PF & PM: Verify Nav instruments. Capt: Cycle No Smkg sign Approach Cklst		
Before 1000'	Before Landing Checklist		

After Landing & Post Flight

CAPTAIN	TRIGGER	FIRST OFFICER	
Speed brake lever - Down	After Landing	Time	
External lights	Clear of rwy	Transponder - ON/XPNDR	
		Flaps - up	
		Radar - TCAS	
		Anti-ice: Wings - off. Eng - as req'd.	
		Stab trim - 4	
Af	ter Landing Check	list	
"Shutdown eng _"	Single Eng taxi-in	Bleeds: Eng - off, Isol - on	
	After 3 min cool down	Eng A/I - off	
		Fuel Control L or R - cutoff (757: kill L eng, 767: either)	
	Near Gate (1 min out)	APU - start	
Parking brake - on	Shutdown	Seltbelt sign	
"Let 'em up,	At Gate	Verify AC power (APU 'Run' light or EXT power ON)	
Shut 'em down"		Fuel Controls - cutoff	
Hyd pumps - Off (L, C, R)		Bleeds: Eng - off. APU - on (as req'd)	
Fuel pumps - Off		ILS - park	
Beacon - Off		Transponder - STBY & 0000	
Parking brake - as req'd		FD's - off	
	Autobrakes - off		
9	Shutdown Checklis	st	
After Shutdown	Flightdeck door: 757 = guard & switch up. 767 = latch pin install		
Reminders	Switch to ground power (APU off?)		
Capt or FO or RP	ACARS: Whose Indg, Fuel remaining, Log RNP & Autoland		
	Fluids: Eng Oil ≥ 8 qts, Hyd quantity (no 'RF'), Oxy ≥ 1000psi		
	Class II flts: IRS drift error: FMC > INDEX > MAINT > IRS MONITOR		
	Pull Red CB's (more than 2 hr sit)		

Engine Start Flows

---One Engine Start Flow to Rule Them All---Display ENGINE page

APU: APU bleed - off. Wait for 'valve' light off Packs – off. APU bleed – on X-bleed: Packs – off Running eng: N2 ≥70%

Anti-ice – off (all) C tank pumps – off (all) Eng Start Selector - GND Time - start Verify: Oil press rising Verify: N2 \geq Ideal 25% (min: 757/18%. 767/15%) Fuel Control - RUN Verify: SPAR VALVE light on, off

---One AFTER Start Flow to Rule Them All---

APU – off (Leave on if req'd for takeoff perf) Eng A/I – on for running eng, if in icing conditions C tank pumps – on for running eng, if fuel in C tank Bleeds: ("Out w/the old, in w/the new" "Don't cross the streams") If APU off: APU & Isol bleeds – off. Eng 1(2) - on If APU on: APU & Isol bleeds – on Packs – Auto (if APU on, pause between packs) Recall – check for msgs Autobrakes - RTO

FMC Setup

-----With Datalink----

IDENT – Model, Engines, Swap DB's POS INIT - enter airport, use best (GPS) lat/long ACARS > INIT DATA > INIT RQ FMC COMM > PERF uplink > ACCEPT FMC COMM > RTE 1 > LOAD... ACTIVATE... EXEC FMC COMM > WIND > LOAD... EXEC FMC COMM > DESCENT FORECAST > LOAD FMC COMM > RTE 2 > LOAD (do not Exec) TAKEOFF > verify "PRE-FLT COMPLETE" CLIMB/VNAV > Verify CRZ ALT, SPD TRANS, TRANS ALT, Step size

CKZ ALI, SPD IKANS, IRANS ALI, Step size Enter SPD RESTR > EXEC

FIX > 1st two reporting points

-----Power up-----Batt – on STBY Power – auto Hyd electric pumps – off Gear lever – down Alt Flaps – norm EXT PWR – on Red CB's – in Fluids – Oil, Hyd, O2 (17qts, no RF, 1000psi)

-----IRS Full Alignment-----

Mode switches – NAV (all 3) FMS – IDENT page: date, a/c type, engines, FF vs Flt plan – Swap DB's, Set IRS POS

-----FFOD's-----See Checklist

-----Aux Panel-----757 & 767: Takeoff config – test FFOD Grnd Prox - test Status msgs -erase Gen field - lights out Flight Recorder - norm Service interphone – off Spare EFB mounts ----Additional 767 items---(some) EEC - closed/normal Bulk cargo heat – vent Rsrve brks/steering - off ISLN - light out

-----Manual Entry-----

IDENT – Model, Engines, "ARM" then FF #, Swap DB's ROUTE p1 – Enter Origin, Dest, Rwy, Flt num "DAL_" ROUTE p2 – Build from release or clearance DEP ARR – choose Rwy, SID, Rwy, STAR, ACTIVATE, EXEC PERF INIT - ZFW, Reserves, Crz alt, Cost Index, Step size TAKEOFF - Verify "PRE-FLT COMPLETE" VNAV – Enter/verify SPD TRANS, TRANS ALT, SPD RESTR LEGS – Step climb info WIND – Enter on LEGS > RTE DATA, DES > FORECAST

("10,10,2" rule: diff of 10°/10kt, 2°C rule) FIX - First 2 reporting points

Class II ETP / Alternates:

- RTE 2 > RTE (optional)

- ORIGIN = 1st Alternate; DEST = 2nd Alternate

- Next page: 1st ALT, 1st ETP, 2nd ALT, 2nd ETP, Last ALT Do not activate/exec RTE 2

Details of Preflight Flows

-----Overhead (PM)-----Yaw dampers - on Antiskid - on (767) EEC - norm/on Hyd L&R Eng swtiches - on (all others off) PTU - off (767) Flt deck door lock - auto Electrical panel: Batt - on Stby Pwr - auto APU gen - on Bus ties - auto Util buses - on Gen control - on Lighting panel:

Voice Recoder - test Taxi & Rwy turnoff – all off Emer Lights - Armed/guarded PASS OX light out RAM AIR TURB light out ENG IGN - 1 or 2. or Single ENG START - auto Fuel panel - all off Anti-ice - all off / auto Wiper - off Lighting - all off. excpt Position Window heat - all on Pax signs - all on Pressurization: Auto rate - index Lndg Alt - set to dest Mode - Auto 1 or 2 Equip cooling - off/auto Flt Deck door – auto IND LTS – test EEC - norm (767) Cargo Heat - on Air Conditioning panel: temp – auto Pack selector – auto (off for grd air) Trim air - on Recirc fan - on (off for grd air) Gasper fan – on Bleed air panel L&R Eng bleed - off APU bleed - on Isolation - on

-----MCP (PM)-----VOR/DME switch – auto FD's – on A/T ARM – arm

A/T ARM – arm VNAV – arm Bank limit – auto Initial Heading and Altitude – set A/P Disengage – up

-----Instrument Panel (PM)-----

Reserve brakes (steering) - off (some) Terrain sys ovrd – off Standby instrmts: ILS - off Set QNH Standby Eng indctr – auto Autobrakes – RTO EICAS: check messages No eng exceedances Secndry Eng display – push Oil \geq 17 grts (8 grts at warm idle) Status display O2 press ≥ 1000psi Hyd – no "RF" Status msgs Computer – auto Thrust Ref – Both & In (some) Heading Ref – norm Alternate flaps – norm LE & TE – off Gear lever – down ATLN Gear Extend – guarded Grnd Prox (3 switches) - off

-----Pedestal (PM)-----

Radar - test, then leave in TCAS Parking brake - set (on) Alternate Stab trim - neutral Stab trim cutouts – guarded Speed Brake – down Thrust levers – idle Fuel Control - cutoff Flaps – up Fire panels – all lights out Eng Fire handles – down/in Cargo fire swtiches – off APU fire handle – in Radio tuning – freqs set (757-3 non-satcom): HF-L: data: HF-R: voice (some) Center tuner: Data (for ACARS) L&R Audio Panels – set HF radio – test Transponder – STBY. 1L or 2R FMS – verify entries

-----Pilot Flying Preflight-----

(IRS - Align) ACARS – Initialize (SP.5) ATC log – clear FMS – Initialize (SP.5) See "FMC Setup" below left

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-----First Officer Preflight-----

Logbook – check Ship# match Airworthiness signed by Mx Review EP-19's Review MEL's/CDL's ETOPS: Pre-Departure Check Window – closed EFB - set Orig, Dest, & Alt airports - Content Locker: Vol 1 Heaters (side panel) - as needed Oxygen mask – check Instruments sources - L & off Lights - set as needed Altimeter - RVSM chk. QNH. bug elev VSI – correct & no flags Clock – UTC displayed ADI - VNAV. TO. FD. TO HSI - TRK & M, 10nm range Autoland status – test Airspeed – no flags RDMI – VOR EFIS control panel DH – neg value Traffic – as reg'd Range – 10nm. A/C vs rwv pos Terrain – as reg'd Mode – Map Wx - offMap switches – as req'd ACP-set Seat & Rudder – adjust

Fuel req'd – verify ATIS - obtain ATC clearance – obtain

-----Captain Preflight-----

Same as FO, with additional items: Parking brake – set Flight Attendant briefing ATIS - review ATC clearance – verify

-----Relief Pilot Preflight-----

Crew Rest Seat/Compartment Blankets, Pillows Potable water level Lav tank level External Walk around

Limitations

757 max alt 42,000' 767 max alt 43,000' Flaps max altitude 20,000' 40 kts (including gust) Max crosswind (Good for Cat 1 autoland) Max tailwind 10 kts Autoland max winds for Cat 2 & 3 only: Head 25 kts Cross 25/15 kts (Boeing/DAL) Tail 10 kts Autoland in Flaps 25 or 30 only Turbulent air 290 kts / .78 Mach Autopilot engage 200' min alt Aileron trim use with AP on is Prohibited.

Wingspans: All 757's: 134' All B767ER's: 166' APU Starter duty cycle: 3 attempts in 1 hour Engine Starter duty cycle: 5 min cont., 30sec cool per min Never re-engage starter when N₂ above 20%

No takeoff in N2 control mode (ENG LIM PROT light) Max fuel imbalance for takeoff: 1500lbs Fuel temps: Min: -37° (Jet A), -44° (Jet A1); Max 49° APU bleed max alt 17.000' Max Takeoff & Landing Elev 8400' (9500' press alt) Certain ship #'s are exempt Max Landing weights (1,000's pounds) 757-200 198 757-300 224 767-300 295 767-300ER 320 Runway Slope +/-2° No HF radio transmission/test during refueling. **RVSM altimeter deviation:** Ground: CA to FO: 25' (or chart Vol1-L.10.9) Ground: CA or FO to field elev: 75' Air: CA to FO: 200' If plane powered on ground when hotter than 34°C: Run packs or see cooling Limitations in Vol 1 Severe Turbulence requires ignition. Turn on by: Eng Start Selector in CONT Flaps extended Eng A/I on Full control displacements only below V_A Autoland groundspeed must be \leq 165kts Logbook entry required for limitation exceedances.

Memory Items

Aborted Engine Start

Fuel Control Switch (affected side).....Cutoff

Airspeed Unreliable

Autopilot disengage switch	Push
A/T Arm switch	Off
F/D switches (both)	Off
If necessary to stabilize (gear up):	
Flaps extended (767)10° and 8	$0\% N_1$
Flaps extended (757)10° and 7	$5\% N_1$
Flaps up (both)4° and 7	5% N ₁

CABIN ALTITUDE / Rapid "D"

Don the oxygen masks Establish crew communications

Dual Engine Failure

Eng Start Selectors (both)	FLT
Thrust levers (both)	Idle
(Verify engines are really winding down)	
Fuel Control switches (both)Cutoff, the	en run

Engine Fire, Severe Damage, Separation

A/T Arm switch	Off
Thrust lever (affected side) Confirm	Idle

Engine Limit / Surge / Stall

A/T Arm switchOff Thrust lever (affected side) Confirm......Retard until eng within limits, or idle

Cold Weather Ops organzied by phase of flight

Icing Conditions: $\leq 10^{\circ}$ & Visible Moisture (vis $\leq 1 \text{mi} / 1600 \text{m}$)

Ext Preflight - 757: Check 1st stage LPC stator (behind fan) for ice. Check both wings from cabin

WARTS Brief: TO Alternate, Contam ramp/rwy, De-ice, 1 or 2 eng taxi, Cold wx eng run ups (≤3°), Eng A/I, Standing Takeoff Engine Start: Contam ramp/txy: Eng A/I on

If 1 engine taxi & Eng A/I on: Only one Pack on

P&W engines: Don't go above taxi thrust until oil temp $\geq 50^\circ$

De-icing procedures: SP16.26

<u>Taxi:</u> Eng run-ups if in 'icing conditions' and OAT ≤3°: P&W: Every 15mins (30 mins max on 757):

Run each eng up to 50% N₁ for 1 sec GE: Every 30mins, run each eng up to 60% N₁ for 30 sec

Takeoff:

Runway Contaminant Decision Tree in SP16.23 Standing takeoff (icing cond & OAT \leq 3°):

 $N_1 \ge 60\%$ before brake release

If vis < 1600 RVR: Captain only takeoff - Static Takeoff In flight:

Icing conditions: Eng A/I On or Auto.

767 ships 121,124-139: Below 10,000': $N_1 \ge 40\%$ Above 10,000': $N_1 \ge 45\%$

767 ships 1501-1506,1521,1601-1708:

Every 10 minutes, $N_1 \ge 70\%$ for 10-30 sec.

767-300 GE: Before starting descent in icing conditions: Eng A/I On. Below 22,000', Wing A/I On.

Exit/Avoid Ice Crystal Icing (ICI). Suspected ICI, see NNC3. <u>Descent:</u> FMS > Descent Forecast > TAI/ON ALT to adjust VNAV path. If destination OAT $\leq -10^{\circ}$: Cold wx altitude adjustments

Approach / Landing:

If OAT $\leq -10^{\circ}$, adjust altitudes on appro. and tell ATC. Braking Action vs Wind guidelines: See SP16.20

After Landing: Wing A/I off, Eng A/I on.

After prolonged flight in icing, or landing on contaminated runway:

Leave flaps at 20 until area around flaps checked for ice.

<u>Secure</u>: OAT < 0°, or may be de-iced: Close outflow valve:

Cabin Altitude Control mode select....MAN Cabin Altitude Control Manual selctor....DESCEND





HSI terrain mode

EGPWS escape maneuver

EO procedures

-----Approaching Runway-----Takeoff Brief extra: Transition Altitude -----Flight-----

10,000' Nav accuracy check HowGozIt math homework Calculate breaks

90min to Coast out Request oceanic clearance

30min to Coast out or Clearance received Route verification: PM reads route from clrnc / FP / TM PF confirms WP's and Lat/long PM marks FP with diagonal line \ ETP alternate wx Put Mach for crossing in FMS

Coast out (OEP – Oceanic Entry Point) SLOP R1 or R2 VHF radios: 123.45 & 121.5 Set HF radios SELCAL check

After Coast out Transponder 2000

FIR boundries – 15 min before CPDLC Logon Ball notes

80nm before Class II fixes PM: Reads next 3 WPs from FP PF: Confirms next 3 WPs in FMS

Over fix Verify LNAV & WP sequencing HowGozIt update & 2nd diagonal line /

80nm after Class II fixes Verify LNAV FIX page ring around next WP

Coast in Radios & Transponder Confirm Clearance (route) Request desired Altitude & Mach Remove SLOP

Oceanic Engine Out

Trigger	PF	PM
Engine Failure	Stabilize aircraft	Read QRH: "Driftdown"
	Offset 5R in FMS	don't EXEC Eng Out yet
	or 5L if required	Ext lights on
	Hold alt while bleeding speed	Tell ATC
	Look for traffic: visual & TCAS	Advise on 121.5 & 123.45
At 5nm offset	EXEC VNAV ENG OUT	
	Descend below tracks. Then:	
	Turn toward alternate airport	

Oceanic Wx deviation

Trigger	PF	PM
Wx on track		Contact ATC
	FMS: Offset R (or L)	Ext lights on
	Climb/Des 300' when ≥5nm R/L	Advise on 121.5 & 123.45
	Look for traffic: visual & TCAS	
Done diverting	Return to course (then LNAV)	Advise ATC

Oceanic Immediate diversion (Fire, Smoke, Fumes)

Trigger	PF	PM
Need to Divert	FMS: Offset 5R (or 5L, for L turn)	Contact ATC
(fire/smoke/fume)	After offset: Climb/Des 500'	Ext lights on
	Look for traffic: visual & TCAS	Advise on 121.5 & 123.45
	Who's PF and who's PM?	QRH

(April 2019)

Maneuvers

Takeoff Windshear

Trigger	PF	PM
Windshear	AP off	Verify PF actions
warning	GA switch	
	Thrust levers max	
	AT disconnect	
	Follow FD	Callout altitude trends
Clear of	Reduce power, 15° pitch	Callout clear of windshear
Windshear	400': Lateral mode	
	1000': Climb power	
	AP on	
	Retract flaps	PIREP to ATC
	After TO checklist	

Approach Windshear

Trigger	PF	PM
Windshear	AP off	Verify PF actions
warning	GA switch	
	Thrust levers max	
	AT disconnect	
	Follow FD	Callout altitude trends
Clear of	Reduce power, 15° pitch	Callout clear of windshear
Windshear	GA switch (Do GA callouts)	
	400': Lateral mode	
	1000': Bug Flaps 5 spd	Verify VNAV
	AP on	PIREP to ATC
	Retract flaps (F5 or up)	
	After TO checklist	

Upset & Stall Recovery

Trigger	PF	PM
Upset/Stall	"Upset. Recover."	Verify PF actions
	Push, Roll, Power, Stablize	

V1 Cut			
Trigger	PF	PM	
Power Loss	Hold centerline		
Vr	Rotate	"Rotate"	
Positive rate	"Gear up"	"Positive Rate"	
	Goal post & 12° pitch		
Stable in climb	"Set 15 units R/L rudder trim"		
400'	Lateral mode	Declare emergency	
1000'	"Vertical speed 200"		
	"Disarm VNAV"		
	"Bug flaps 5 speed"		
F5 man speed	"FLCH"		
	"Select & set Continous thrust"		
	"Disarm Autothrottle"		
	"Autopilot on"		
Clear of terrain	"After takeoff checklist"		
	"Non-Normal checklist"		
Level off altitude	"Reduce rudder trim to 10"	Set up for return to field	

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Single Engine ILS

Trigger	PF	PM
Glide slope alive	"Gear down"	
	"Flaps 20"	
	"Bug flaps 20 speed"	
	"Set rudder trim to 5"	

Single Engine Go-around

Trigger	PF	РМ	
Go-around	"Go-around, Flaps 5"	"Go-around verified"	
	"Gear up"	"Positive rate"	
400'	Lateral mode		
1000'	"Bug Flaps 5 speed"		
Flaps 5 man spd	After Takeoff Checklist		

Normal Takeoff





No Evacuation:

2) Communicated with FA's.

aborts require an ASR.

Aborted Takeoff Autobrakes RTO arms above 85kts.

Reject below 80kts for: T/O config, Master Caution/Warning, Tire fail, bad vib / noise, window open. Reject above 80kts only for: Master Warning, Fire, Eng fail, Predictive windshear, unsafe to fly.



1) PA: "This is the captain. We have discontinued the takeoff. Please remain seated with your seatbelts fastened."

4) See FOM 2.3.10 RTO's: Call Duty Pilot. Keep pax informed. All

3) Go to QRH NN 0.38 Rejected Takeoff Considerations

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Takeoff – Engine Failure

This profiles assumes engine flameout at V1, and a return to the departure airport (flaps left at 5).

Autopilot: Not until 200' Close-in turn when single engine: - Keep bank less than 15°, until V2+15 Inhibited: - Cautions: 80kts to 20secs WOW or >400' - Warnings & Fire bell: Rotation to 20sec WOW or >400'

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Takeoff & Go-around Flap Retraction



Call for Flaps 5 (example: @141kt)

Call for Flaps 1 (example: @161kt)

Call for Flaps up (example: @181kt)

Approach Flap Extension



Retracting Flaps after Takeoff / Go-around				
Current	Passing	Passing Which spd		
Flaps	Speed	bug is it?	Flaps	
≥15	Vref30 + 20	(middle -20kt)	5	
5	Vref30 + 40	Middle	1	
1	Vref30 + 60 (highest -20kt)		0	
Limit bank to 25° until above Manuever speed				
Manuever speed = Minimum speed + 20kts				
Manuevering speed protects up to 40° bank.				

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Setting Approach Flaps

Current	Manvr	Which spd	Call for	Now bug
Flaps	Speed	bug is it?	Flaps	speed
0	Vref30 + 80	Highest	1	Vref30 + 60
1	Vref30 + 60	(half way)	5	Vref30 + 40
5	Vref30 + 40	Middle	20	Vref30 + 20
20	Vref30 + 20	(middle -20kt)	25 or 30	Vref + wind

Manuevering speed protects up to 40° bank.

Minimum speed = manvr spd - 20kts. Protects up to 25° bank.

TER



eBrief video screenshot



eBrief video screenshot



eBrief video screenshot



RNAV Approach

On Vectors

Select LNAV

PF: "LNAV"

At Flaps 5, and -Flaps 5 Speed

eBrief video screenshot





eBrief video screenshot