Flight Procedures Cover Page	Task Action: FLIGHT CHECK	Task Type: SID	Estimated Chart Date: 06/12/2025	APWS Task ID: 8C91C4E8690140E499F3991ADB7D4C78	APWS Project ID: 289D159968F14ABEAB91E322360B4FFB		
Procedure: SID FSHUN FOUR (RNAV) ORLANDO FL H	KMCO	Enroute: YES	Specialist: Ferreira, Giorgia		Agreement Number:		
Airport ID: KMCO			Airport City: ORLANDO		State: FL		
Facility ID:	Facility Type:	Flight Inspection Rema	rk Type:				

Procedure Comments:

WAIVER ON FILE TO NOT CHART IF ALTITUDE AT THE IF FOR RADAR VECTORS (RV). WAIVER ON FILE TO PUBLISH ATC CLIMB GRADIENTS.

APPROVAL LETTER ON FILE FOR CLIMB GRADIENTS IN EXCESS OF 500 FEET PER NM. CANCELLED FIX TUPPY, ADDED FIX DADTI, MOVED FSHUN AND PLUMR. POC: JOHN BORDY 405 954 0980.

8260-2 FSHUN

05/06/2025: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 03/18/2025. FIX USE: CHANGED TYPE FROM IAP TO DP.

16

New FC Slot

CHECKE

ONALITA CHECKE

ONALITY 23 CHECKER

					FIPC	C DM	IE/DM	E FO	RM								
PROCEDURE:AIRPORT NAME:AIRPORTSID FSHUN FOUR (RNAV) ORLANDO FL KMCOORLANDO INTLKMCO											T ID:	SPEC	IAL C	ONTROL I	NO:		
SID FSHUN FOU	R (RNAV	V) ORLAN	DO FL KMC	CO	ORLA	ORLANDO INTL KMO			MCO		AG-0	2-118-	25				
FAC ID: FSHUN4			CITY: OR	LANDO	•					ST	Γ: FL	L ORIG CHART DATE: 06/12/2025					
DFL TYPE:	DFL TYPE: THIRD PARTY: EST. TIME ON SITE: REIMB. NUMBER: PTS TASK ID:									•							
PROC/D									F3991ADI	B7D4C	78						
					PR	EFL]	IGHT	NOT	ES								
REVIEWER: jon	athan r v	veaver										DATE: (03/06/2	025			
COMMENTS:												СНЕСК С	NE:				
												X FLT (CK RE	Q [NFCR	RE.	JECT
																YES	NO
CPV C								CPV COM	IPLET	E?		X					
PROCEDURE RESULTS																	
INSPECTION DA	TE:	CREV	v #:	N #:		_	r PROCEI			:		ARINC	CODI	NG:			
03/06/2025		VN53	30	N90	X SA	т [SAT W	//CHAN	GES	UN	NSAT	X SAT	г [SA	T/GOLD		NSAT
FLIGHT INSPEC	TOR SI	GNATURI	Ξ:		PRINT	ED NA	ME:								NOTAM INITIATED?		
jonathan r weaver (@ 03/06/	/2025 21:13			WEAV	ER, JOI	NATHAN	RICHAR	D						YES X NO		
FLIGHT INSPEC	TOR RI	EMARKS:															
DME/DME STAT	US:	SPEC	IALIST SIC	SNATURE:						PR	RINTE	D NAME:					
X SAT UNSAT erik j-ctr john @ 03/10/2025 15:01 ERIK J. JOHN																	
SPECIALIST REMARKS: Post Flight DME/DME Analysis has been performed on the FSHUN4 SID with satisfactory results. All modeled DME's and ESV's were recorded by Flight Inspection or modeled TARGETS DME analysis tool and are suitable for DME/DME/IRU operations. Leg flown was BLOSM_PLUMR.									eled by								
				IN-	FLIGH	IT O	BSTA	CLE	REP	ORT	Γ						
OBSTRUCTION ID #: COORDINATES OR LOCATION: GNSS ALTITUDE (MSL): BAROMETRIC ALTITUDE (MSL): HEIGHT ABO								BOVE GRO	OUND LI	EVEL:							

					FIPC I	ME/DM	E FOR	RM							
PROCEDURE:AIRPORT NAME:AIRPORTSID FSHUN FOUR (RNAV) ORLANDO FL KMCOORLANDO INTLKMCO											SPECIA	L CONTROL	NO:		
SID FSHUN FOUR	R (RNAV) ORLAN	DO FL KM	ICO	ORLAND	OO INTL			KMCO		AG-02-	118-25			
FAC ID: FSHUN4	ļ.		CITY: O	RLANDO	•				ST: FL	ST: FL ORIG CH			ART DATE: 06/12/2025		
DFL TYPE:	THIRD	PARTY:	EST. TIM	IE ON SITE:	REIMB. NUN	MBER:	PTS	S TASI	K ID:						
PROC/D] YES	1.0				8C	91C4E8	3690140E49	9F3991AD	B7D4C78	}			
					PREF	LIGHT	NOTE	S							
REVIEWER: jon	athan r w	eaver								DATE:	03/06/202	<u></u> 25			
COMMENTS:										CHECK O	NE:				
										X FLT	CK REQ	☐ NFCR	☐ RE	JECT	
													YES	NO	
CPV COM									1PLETE	?	X				
PROCEDURE RESULTS															
INSPECTION DA	TE:	CREV	v #:	N #:	INSTRUM	ENT PROCEI	OURE STA	TUS:		ARINC	CODIN	G:			
03/06/2025		VN53	30	N90	X SAT	SAT W	/CHANGE	ES [UNSAT	X SA	Γ 🗌	SAT/GOLD	U	NSAT	
FLIGHT INSPEC	TOR SIG	GNATURE	Ξ:		PRINTED	NAME:						NOTAN	NOTAM INITIATED?		
jonathan r weaver (@ 03/06/2	2025 21:13			WEAVER,	JONATHAN I	RICHARD					☐ YE	\mathbf{x}	NO	
FLIGHT INSPEC	TOR RE	MARKS:													
DME/DME STAT	US:	SPEC	IALIST S	IGNATURE:					PRINTE	D NAME:					
SAT UNSAT															
SPECIALIST RE	MARKS:														
				IN-	FLIGHT	OBSTA	CLE R	EPO)RT						
OBSTRUCTION ID #: COORDINATES OR LOCATION: GNSS ALTITUDE (MSL): BAROMETRIC ALTITUDE (MSL): HEIGH								HEIGH	T ABOVE GE	ROUND L	EVEL:				

1. FLIGHT PROCEDURE IDENTIFICATION:

Orlando, FL

Orlando International Airport (KMCO)

FSHUN (RNAV) SID

2. WAIVER REQUIRED AND APPLICABLE STANDARD:

Publish ATC Climb Gradients (CG). Per Order 8260.46K, Section 2-1-5, Para h.(3)(d): "Do not chart CGs that may be needed to support airspace, navigation solution, environmental, or ATC operational limitations."

3. REASON FOR WAIVER (JUSTIFICATION FOR NONSTANDARD TREATMENT):

The ATC CG's of RWY 36L: 599 FT/NM, and 36R: 589 FT/NM allow for the departures to be clear of arriving traffic into Orlando Executive Airport (KORL) RWY 25 ILS final approach course. This ensures a safe and efficient traffic flow for both airports. If aircraft cannot accept the climb gradient, ATC can provide an alternate option. Historically all aircraft have been able to make the crossing altitudes.

4. EQUIVALENT LEVEL OF SAFETY PROVIDED:

The procedure will have a Chart Note added stating: NOTE: ATC CLIMB GRADIENT: RWY 36L: 599 FT/ NM to 2300, 36R: 589 FT/NM to 2300, IF UNABLE TO ACCEPT CLIMB RATE ADVISE ATC PRIOR TO TAXI. This allows controllers time to coordinate with the controller in the adjacent airspace and/or assign a different departure.

5. ALTERNATIVE ACTIONS DEEMED NOTFEASIBLE:

Discarding the crossing altitude in favor of a standard climb was considered, but due to the high density of air traffic within the MCO Terminal (F11) airspace, the risk of required additional controller transmissions and disruption of traffic flow was regarded as being too great and introduced an unnecessary safety risk.

6. COORDINATION WITH USER ORGANIZATIONS (SPECIFY):

Eastern Service Area PBN Co-leads Orlando International Tower Orlando Central Florida TRACON (F11) Miami ARTCC (ZMA) American Airlines, Southwest Airlines

US Department of Transportation Federal Aviation Administration

FLIGHT PROCEDURE STANDARDS WAIVER

FLIGHT STANDARDS USE ONLY CONTROL NO.

7. SUBMITTED BY:	
DATE OFFICE IDENTIFICATION TITLE	SIGNATURE
8. AFS ACTIONS:	
DISABBOVED DISABBOVED DIST DECUM	Digitally signed by
APPROVED DISAPPROVED NOT REQUIF	RED ERIC N SUSKI
COMMENTS:	Feb 18, 2025
DATE ROUTING SYMBOL SIGNATURE	



Memorandum

Date: October 16, 2024

To: Christopher Hope, Manager, Flight Technologies and Procedures Division

THRU: Romana Wolf, Manager, Flight Procedures and Airspace Group

From: Bev Bordy, Manager, Instrument Flight Procedures Coordination Team, AJV-A45

Prepared by: Mark Thompson, Sr. ATC Specialist, NAVTAC CTR Support

Subject: Approval Request: Orlando INTL, Orlando, FL (KMCO)

FSHUN (RNAV) SID, ATC CLIMB GRADIENT

The purpose of this memo is to request Flight Standards approval to publish the FSHUN (RNAV) SID with climb gradients higher than 500 FT/NM as stated in FAA Order 8260.46K, Para 2-1-5.b. "The FPAG (or appropriate military authority) must approve DPs and DVAs requiring a CG in excess of 500 ft/NM (600 ft/NM for helicopters). See paragraph 2-1-5.h.(3) for additional information regarding establishing/publishing greater than standard CGs."

(1) "Requests for approval of CGs in excess of 500 ft/NM (600 ft/NM for helicopters) must include documentation showing the calculations used to derive the CG values."

The KMCO FSHUN (RNAV) SID Departure was intended to overlay the initial climb of the Conventional SIDs to protect the arriving aircraft into Orlando Executive Airport (KORL) on the ILS RWY 25 IAP. The crossing restriction is required to ensure separation and optimal traffic flow in extremely congested airspace. The crossing restrictions result in ATC climb gradients of: RWY 36L: 599 FT/NM to 2300, 36R: 589 FT/NM to 2300. This ensures a safe and efficient traffic flow for both airports. If the departure aircraft cannot accept the required ATC climb gradient, ATC can stop or delay aircraft executing the KORL ILS RWY 25 IAP until the departure traffic is airborne and clear of the final approach course. Historically all aircraft have been able to comply with all crossing altitudes.

Digitally signed by **ERIC N SUSKI** Feb 18, 2025

X

KMCO:RW36L:PLUMR Evaluation Results Part 1/2

Leg Tp	End Pt	Turn Tp	Alt Restr	Alt Restr 2	Spd Restr	Min CG Calc Alt	Turn Ang	Leg Length	Min Seg Length
VA			+600.00			600.00	0.0	2.53	2.51
DF	KYOTE	FLY_BY	+2300.00			830.91	0.15	1.15	0.0
TF	EARRS	FLY_BY	+3000.00		230.00	1269.19	23.48	2.19	1.33
TF	LEFTI	FLY_BY	+4000.00		230.00	1936.09	66.69	3.33	3.28
TF	BLOSM	FLY_BY	-7000.00			3444.08	80.04	7.54	5.34
TF	DADTI	FLY_BY				6472.81	13.83	15.14	6.35
TF	FSHUN	FLY BY	+4000.00			11619.02	41.81	25.72	19.37

KMCO:RW36L:PLUMR Evaluation Results Part 2/2

Leg Tp	End Pt	Turn Tp	DTA1	DTA1 Turn Rad	DTA1 Turn Alt	DTA1 Turn Spd	DTA1 Bank Ang	DTA1 Tailwind	DTA1 True Airspd	DTA1 vGround	DTA2	DTA2 Turn Rad	DTA2 Turn Alt	DTA2 Turn Spd	DTA2 Bank Ang	DTA2 Tailwind	DTA2 True Airspd	DTA2 vGround
VA					0.0	0.0					0.0		600.0	230.0	0.0	30.0	238.02	268.02
DF	KYOTE	FLY_BY	0.0		600.0	230.0	0.0	30.0	238.02	268.02	0.0	14.56	2300.0	230.0	5.0	51.55	244.15	295.7
TF	EARRS	FLY_BY	0.0	14.56	2300.0	230.0	5.0	51.55	244.15	295.7	1.33	6.39	3395.79	230.0	11.74	53.72	248.22	301.95
TF	LEFTI	FLY_BY	1.33	6.39	3395.79	230.0	11.74	53.72	248.22	301.95	1.95	2.97	5063.26	230.0	25.49	57.03	254.62	311.64
TF	BLOSM	FLY_BY	1.95	2.97	5063.26	230.0	25.49	57.03	254.62	311.64	3.38	4.03	7000.0	265.0	25.49	60.86	302.27	363.13
TF	DADTI	FLY_BY	3.38	4.03	7000.0	265.0	25.49	60.86	302.27	363.13	2.96	24.43	13201.65	300.0	6.91	73.14	377.7	450.84
TF	FSHUN	FLY_BY	2.96	24.43	13201.65	300.0	6.91	73.14	377.7	450.84	16.4	42.95	22211.25	300.0	5.0	90.98	439.76	507.8

KMCO:RW36L:PLUMR Criteria Failures and Warnings

RDO308: [Approval Required] In the route beginning at RW36L, the segment from DER to KYOTE requires an ATC climb gradient of 598.15... feet/NM in excess of 500 feet/NM/600 feet/NM.

RDO254: [Warning] The turn at FSHUN_ results in an inside arc that does not intersect the Primary leg boundaries outbound from the fix. An alternate boundary construction method was used to complete the evaluation.

RDO254: [Warning] The turn at FSHUN_ results in an inside arc that does not intersect the Secondary leg boundaries outbound from the fix. An alternate boundary construction method was used to complete the evaluation.

KMCO:RW36R:PLUMR Evaluation Results Part 1/2

Leg Tp	End Pt	Turn Tp	Alt Restr	Alt Restr 2	Spd Restr	Min CG Calc Alt	Turn Ang	Leg Length	Min Seg Length
VA			+600.00			600.00	0.0	2.54	2.52
DF	FACTS	FLY_BY	+2300.00			842.55	6.47	1.21	0.0
TF	EARRS	FLY_BY	+3000.00		230.00	1270.89	16.85	2.14	1.33
TF	LEFTI	FLY_BY	+4000.00		230.00	1937.80	66.69	3.33	3.28
TF	BLOSM	FLY_BY	-7000.00			3445.79	80.04	7.54	5.34
TF	DADTI	FLY_BY				6474.51	13.83	15.14	6.35
TF	FSHUN	FLY_BY	+4000.00			11620.73	41.81	25.72	19.37

KMCO:RW36R:PLUMR Evaluation Results Part 2/2

Leg Tp	End Pt	Turn Tp	DTA1	DTA1 Turn Rad	DTA1 Turn Alt	DTA1 Turn Spd	DTA1 Bank Ang	DTA1 Tailwind	DTA1 True Airspd	DTA1 vGround	DTA2	DTA2 Turn Rad	DTA2 Turn Alt	DTA2 Turn Spd	DTA2 Bank Ang	DTA2 Tailwind	DTA2 True Airspd	DTA2 vGround
VA					0.0	0.0					0.0		600.0	230.0	0.0	30.0	238.02	268.02
DF	FACTS	FLY_BY	0.0		600.0	230.0	0.0	30.0	238.02	268.02	0.0	14.56	2300.0	230.0	5.0	51.55	244.15	295.7
TF	EARRS	FLY_BY	0.0	14.56	2300.0	230.0	5.0	51.55	244.15	295.7	1.33	8.96	3370.94	230.0	8.43	53.67	248.13	301.8
TF	LEFTI	FLY_BY	1.33	8.96	3370.94	230.0	8.43	53.67	248.13	301.8	1.95	2.97	5038.41	230.0	25.49	56.98	254.52	311.49
TF	BLOSM	FLY BY	1.95	2.97	5038.41	230.0	25.49	56.98	254.52	311.49	3.38	4.03	7000.0	265.0	25.49	60.86	302.27	363.13
TF	DADTI	FLY BY	3.38	4.03	7000.0	265.0	25.49	60.86	302.27	363.13	2.96	24.43	13201.65	300.0	6.91	73.14	377.7	450.84
TF	FSHUN	FLY BY	2.96	24.43	13201.65	300.0	6.91	73.14	377.7	450.84	16.4	42.95	22211.25	300.0	5.0	90.98	439.76	507.8

KMCO:RW36R:PLUMR Criteria Failures and Warnings

RDO308: [Approval Required] In the route beginning at RW36R, the segment from DER to FACTS requires an ATC climb gradient of 588.34... feet/NM in excess of 500 feet/NM/600 feet/NM.

RDO254: [Warning] The turn at FSHUN_ results in an inside arc that does not intersect the Primary leg boundaries outbound from the fix. An alternate boundary construction method was used to complete the evaluation.

RDO254: [Warning] The turn at FSHUN_ results in an inside arc that does not intersect the Secondary leg boundaries outbound from the fix. An

alternate boundary construction method was used to complete the evaluation.

1. FLIGHT PROCEDURE IDENTIFICATION:

Orlando, FL

KMCO

FSHUN DEPARTURE (RNAV)

2. WAIVER REQUIRED AND APPLICABLE STANDARD:

Waiver required to not chart IF altitude at the IF for radar vectors (RV). Order 8260.46 K, Appendix E, Section 1, para 2.m.(4) "Document the minimum crossing altitude at the IF on RNAV Radar departure procedures as follows: CHART: MINIMUM CROSSING ALTITUDE AT (RNAV IF)-(Altitude)."

3. REASON FOR WAIVER (JUSTIFICATION FOR NONSTANDARD TREATMENT):

Adding unnecessary altitudes at the "IF" on procedures when they are not needed creates unnecessary workload based on the type of climb clearance that is issued. If the altitude restriction at the "IF" is to be adhered to for aircraft departing from the south runways, then after the aircraft is airborne ATC must issue "CLIMB VIA SID EXCEPT MAINTAIN (altitude)". With this procedure, its unnecessary to add an altitude restriction at FSHUN as the aircraft will be issued an initial departure clearance containing "MAINTAIN 7000" and will be receiving radar vectors to the waypoint FSHUN to join the procedure. When aircraft depart from the south runways, they will be climbing to 7000 and ATC must ensure they are at or above the Minimum Vectoring Altitudes (MVA), therefore the aircraft is always operating in airspace at an altitude above any terrain or obstacles.

Adding an unnecessary altitude at FSHUN creates workload for pilots as it could create a climb gradient higher than 200 feet per NM depending on where ATC vectors the aircraft before clearing them to FSHUN and it could increase communication between ATC and pilots who will be asking questions about the altitude restriction, which ties up the radios. It also adds pilot workload once airborne when ATC issues an altitude higher than 7000 by stating "CLIMB and MAINTAIN (altitude)". The use of "CLIMB and MAINTAIN (altitude)" deletes any published altitude restrictions, therefore pilots will be heads down deleting the restriction from the FMC.

AFS has approved other procedures within the NAS provided an evaluation has been completed. In this case, the evaluation has been accomplished and is contained under number 4 below.

4. EQUIVALENT LEVEL OF SAFETY PROVIDED:

With an initial procedurally required minimum initial climb gradient of 500 FT/NM to 600 and then the standard climb gradient of 200 FT/NM, a departing aircraft will be above 3000 within 13.0 NM after departure and at a minimum of 18.35 NM prior to the IF (FSHUN) which is 31.35 NM from the closest DER (RWY17R). The departure route description for runways 17L, 17R, 18L, and 18R will provide instruction for the aircraft to conduct an uninterrupted climb to 7000 which is at or above the MVA from the airport to the IF.

ATC will ensure aircraft departing runways 17L, 17R, 18L, and 18R cross the IF at or above 4000 ft. MSL and within the confines of the Class B airspace. This requirement is included in the facility Standard Operating Procedures (SOP).

An OCS with a starting elevation of 2000 ft. (3000 MVA-1000 ROC) was evaluated for the route starting at FSHUN and the surface was clear.

5. ALTERNATIVE ACTIONS DEEMED NOT FEASIBLE:

Modifying all the South runway SIDs to eliminate radar vector segments would be incompatible with the procedure efficiency and could cause environmental concerns and possibly delays in publication. .

6. COORDINATION WITH USER ORGANIZATIONS (SPECIFY):

Eastern Service Area PBN FAA and NATCA leads.
ZJX ARTCC.
ZMA ARTCC
F11 TRACON.
Orlando Tower.
American Airlines and Southwest Airlines.

Digitally signed by ERIC N SUSKI Mar 18, 2025

US Department of Transportation Federal Aviation Administration

2/4/2025 AJV-E24 ESC OSG FPT

FLIGHT PROCEDURE STANDARDS WAIVER

FLIGHT STANDARDS USE ONLY CONTROL NO.

7. SUBMITTED BY: DATE:	SIGNATURE
8. AFS ACTIONS:	
APPROVED DISAPPROVED NOT REQUIRED	Digitally signed by
COMMENTS:	<i>ERIC N SUSKI</i> Feb 18, 2025
Approved Based on the Equivalent Level of Safety in Block 4.	
DATE ROUTING SYMBOL SIGNATURE	

FSHUN THREE DEPARTURE (RNAV)



7000 RADAR required.

⇔EXEC

TAKEOFF MINIMUMS

Rwys 17L/R, 18L/R, 35L/R, 36L/R: Standard with minimum climb of 500' per NM to 600.

BLOSM

LEFT

4000 230K

600

BAAIT 1500

HANDD

3000 230K

SAWZZ 2300

EARRS

KYOTE 2300

FACTS

2300 600

275° -(8)

7000

3000 230K

35/2

26 DEC









FSHUN THREE DEPARTURE (RNAV)

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Jet and turbo-prop aircraft only.

D-ATIS DEP 120.525

CLNC DEL 134.7 341.7 **CPDLC**

GND CON 126.4 (East) 121.8 (West)

ORLANDO TOWER 118.45 253.5 (Rwys 17L-35R,17R-35L) 124.3 253.5

(Rwys 18L-36R, 18R-36L)

ORLANDO DEP CON

120.15 284.7

SE-3, 26 DEC 2024 to 23 JAN 2025



NOTE: Chart not to scale.

FSHUN THREE DEPARTURE (RNAV)





SE-3,

23 JAN 2025

ಠ

20 FEB 2025

DEPARTURE ROUTE DESCRIPTION SEE ADDITIONAL REQUIREMENTS ON AAUP

TAKEOFF RUNWAY 17L: Climb on heading 185° to intercept course 215° to cross BAAIT at or above 1500, then on track 185°, for vectors to TUPPY, thence. . . .

<u>TAKEOFF RUNWAY 17R:</u> Climb on heading 185° to intercept course 211° to cross BAAIT at or above 1500, then on track 185°, for vectors to TUPPY, thence. . . .

TAKEOFF RUNWAYS 18L/R: Climb on heading 185° to 600, then direct BAAIT at or above 1500, then on track 185°, for vectors to TUPPY, thence. . . .

TAKEOFF RUNWAY 35L: Climb on heading 005° to intercept course 355° to cross SAWZZ at or above 2300, then on depicted route to TUPPY, thence. . . .

TAKEOFF RUNWAY 35R: Climb on heading 005° to intercept course 343° to cross SAWZZ at or above 2300, then on depicted route to TUPPY, thence. . . .

TAKEOFF RUNWAY 36L: Climb on heading 005° to 600, then direct KYOTE to cross at or above 2300, then on depicted route to TUPPY, thence. . . .

TAKEOFF RUNWAY 36R: Climb on heading 005° to 600, then direct FACTS to cross at or above 2300, then on depicted route to TUPPY, thence. . . .

. . . . on track 204° to FSHUN. Maintain 7000. Expect clearance to filed altitude 10 minutes after departure.

ALL AIRCRAFT: ATC climb gradients: If unable to accept climb rates advise ATC prior to taxi. RUNWAY 35R: 566 FT/NM to 2300, RUNWAY 36L: 637 FT/NM to 2300, RUNWAY 36R: 621 FT/NM to 2300.

PLUMR TRANSITION (FSHUN3.PLUMR)

FSHUN FOUR DEPARTURE (RNAV)

ORLANDO, FLORIDA RNAV 1 - DME/DME/IRU or GPS. ORLANDO DEP CON **TOP ALTITUDE:** 120.15 284.7 RADAR required. 7000 D-ATIS DEP RADAR required for non-GPS equipped aircraft. 120.525 CLNC DEL 134.7 341.7 TAKEOFF MINIMUMS **CPDLC** Rwys 17L/R, 18L/R, 35L/R, 36L/R: Standard GND CON 126.4 (East) with minimum climb of 500'/NM to 596. 121.8 (West) ORLANDO TOWER 118.45 253.5 (Rwys 17L-35R,17R-35L) **EXEC** 124.3 253.5 (Rwys 18L-36R, 18R-36L) LEFTI **BLOSM** 7000 (269°T) 4000 230K 275° (8) HANDD **EARRS** 3000 230K 3000 230k 189°7) 195° (15) PROTOTYPE-NOT SAWZZ FOR NAVIGATION 2300 **KYOTE** 2300 **FACTS** DADTI 2300 596 596 **BAAIT FSHUN** MSA MCO 25 Ny 1500

NOTE: Jet and turbo-prop aircraft only.

(CONTINUED ON FOLLOWING PAGE)

3000



DEPARTURE ROUTE DESCRIPTION

SEE ADDITIONAL REQUIREMENTS ON AAUP

TAKEOFF RUNWAY 17L: Climb on heading 185° to intercept course 215° to cross BAAIT at or above 1500, then on track 185°, for vectors to FSHUN, thence

TAKEOFF RUNWAY 17R: Climb on heading 185° to intercept course 211° to cross BAAIT at or above 1500, then on track 185°, for vectors to FSHUN, thence

TAKEOFF RUNWAYS 18L/R: Climb on heading 185° to 596, then direct BAAIT at or above 1500, then on track 185°, for vectors to FSHUN, thence

. . . . then on transition, maintain 7000'. Expect filed altitude 10 minutes after departure.

TAKEOFF RUNWAY 35L: Climb on heading 005° to intercept course 355° to cross SAWZZ at or above 2300, then on track 345° to cross HANDD at or above 3000 and at or below 230K, then on track 338° to cross LEFTI at or above 4000 and at 230K, thence

TAKEOFF RUNWAY 35R: Climb on heading 005° to intercept course 343° to cross SAWZZ at or above 2300, then on track 345° to cross HANDD at or above 3000 and at or below 230K, then on track 338° to cross LEFTI at or above 4000 and at 230K, thence

<u>TAKEOFF RUNWAY 36L</u>: Climb on heading 005° to 596, then direct KYOTE at or above 2300, then on track 006° to cross EARRS at or above 3000 and at or below 230K, then on track 342° to cross LEFTI at or above 4000 and at 230K, thence

TAKEOFF RUNWAY 36R: Climb on heading 005° to 596, then direct FACTS at or above 2300, then on track 359° to cross EARRS at or above 3000 and at or below 230K, then on track 342° to cross LEFTI at or above 4000 and at 230K, thence

. . . . then on track 275° to cross BLOSM at or below 7000, then on track 195° to DADTI, then on track 181° to FSHUN, then on transition, maintain 7000′. Expect filed altitude 10 minutes after departure.

All aircraft: ATC climb gradients: if unable to accept climb gradients rates advise ATC prior to taxi. RUNWAY 36L: 599'/NM to 2300, RUNWAY 36R: 589'/NM to 2300.

PLUMR TRANSITION (FSHUN4.PLUMR)

PROTOTYPE-NOT FOR NAVIGATION



































