

This is a corrected copy of the procedure previously published in NFDD 088.

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
GRAPHIC DEPARTURE PROCEDURES (DP)

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
TOPMM	FOUR	TOPMM4.TOPMM	THREE	02/01/2018	19JULY2018

TYPE:	OBSTACLE	COPTER	SID	SPECIAL	RNAV
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**DP ROUTE DESCRIPTION:**

**TAKEOFF RWY 12:** CLIMB HEADING 120.72 TO 600, THEN DIRECT TO CROSS OMMAA AT 3000 AND AT OR BELOW 210 KIAS, THEN ON TRACK 196.04 TO PLTAA, THEN ON TRACK 269.42 TO AAYJY, THEN ON TRACK 349.58 TO CROSS QMARY AT 4000 AND AT OR BELOW 230 KIAS, THEN ON TRACK 311.77 TO TOPMM, THENCE...

**TAKEOFF RWY 26R:** CLIMB HEADING 256.20 TO INTERCEPT COURSE 302.02 TO TOPMM, THENCE...

**TAKEOFF RWY 30:** CLIMB HEADING 300.73 TO INTERCEPT COURSE 269.34 TO TOPMM, THENCE...

...ON (TRANSITION). IKAYE TRANSITION MAINTAIN 12000; COREZ AND CSTRO TRANSITIONS MAINTAIN 15000. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):**

TRANSITION NAME	TRANSITION COMPUTER CODE	FROM FIX/NAVAID	TO FIX/NAVAID	COURSE	DISTANCE	MEA	MOCA	CROSSING ALTITUDE/FIXES
COREZ	TOPMM4.COREZ	TOPMM	PYPES	TRACK 269.31	10.05	2800	2600	PYPES AT/ABOVE 7000
			PLTFM	TRACK 317.09	6.01	7000	2500	PLTFM AT/ABOVE 10000
			OVEUR	TRACK 324.15	7.23	10000	4700	
			OROSZ	TRACK 329.38	20.43	12000	6000	
			SHORS	TRACK 315.72	25.60	14000	10300	
			MDWAY	TRACK 315.53	12.49	14000	10300	
			COREZ	TRACK 315.48	40.49	14000	8200	
CSTRO	TOPMM4.CSTRO	TOPMM	PYPES	TRACK 269.31	10.05	2800	2600	PYPES AT/ABOVE 7000
			PLTFM	TRACK 317.09	6.01	7000	2500	PLTFM AT/ABOVE 10000
			OVEUR	TRACK 324.15	7.23	10000	4700	
			OROSZ	TRACK 329.38	20.43	12000	6000	
			HEYJO	TRACK 336.83	17.77	14000	8000	
			CSTRO	TRACK 316.52	50.20	14000	8000	



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TOPMM	FOUR	TOPMM4.TOPMM	THREE	02/01/2018	19JULY2018
IKAYE	TOPMM4.IKAYE	TOPMM	RIGGR	TRACK 245.73	8.16 3500 2600 RIGGR AT/ABOVE 6000
			BOILL	TRACK 249.66	21.10 6000 2500
			IKAYE	TRACK 322.37	22.59 10000 5200

**PROCEDURAL DATA NOTES:**

- NOTE:** RADAR REQUIRED.
- NOTE:** RNAV 1.
- NOTE:** DME/DME/IRU OR GPS REQUIRED.
- NOTE:** TURBOJET AIRCRAFT ONLY.
- NOTE:** SOME DEPARTURES MAY BE VECTORED TO OROSZ WHEN REQUIRED FOR TRAFFIC.
- NOTE:** IKAYE TRANSITION ATC ASSIGNED ONLY.
- NOTE:** DEPARTING RWY 26R, DO NOT EXCEED 210 KIAS UNTIL ESTABLISHED ON 302.02 COURSE TO TOPMM.
- NOTE:** MAINTAIN AT OR BELOW 250 KIAS UNLESS OTHERWISE DIRECTED BY ATC.

**TAKEOFF MINIMUMS:**

- RWY 8L, 8R, 26L:** NA - ATC.
- RWYS 12:** STANDARD.
- RWY 26R:** STANDARD WITH MINIMUM CLIMB OF 270 FT PER NM TO 600.
- RWYS 30:** STANDARD WITH MINIMUM CLIMB OF 285 FT PER NM TO 600.

**TAKEOFF OBSTACLES NOTES:**

SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

**CONTROLLING OBSTACLES:**

**LOST COMMUNICATIONS PROCEDURES:**

**ADDITIONAL FLIGHT DATA:**

REFERENCE MAG VAR: KLGB 14E EPOCH YR: 1980  
DME/DME ASSESSMENT SAT: RNP (2.0)

**CHART: TOP ALTITUDE:** IKAYE TRANSITION: 12000 / CSTRO AND COREZ TRANSITIONS: 15000

**CHART:** SPEED ICON MAXIMUM SPEED 230 KIAS AT QMARY.

**CHART:** SPEED ICON MAXIMUM SPEED 210 KIAS AT OMMAA.  
DO NOT CHART MOCA(S).



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**AIRPORTS SERVED:**

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
LONG BEACH/DAUGHERTY FIELD/	LONG BEACH	CA

**COMMUNICATIONS:**

ATIS, CLNC DEL, GND CON, SOCAL DEP CON

**FIXES AND/OR NAVAIDS:**



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- REMARKS:**
1. MOCA(S) NOT CHARTED PER ATC REQUEST.
  2. RWY 26R CLIMB GRADIENT REQUIRED TO REACH MINIMUM LNAV ENGAGEMENT ALTITUDE PRIOR TO CF LEG. LNAV ENGAGEMENT CLIMB GRADIENT MITIGATES ALL 40:1 PENETRATIONS IN DEPARTURE ROUTE.
  3. RWY 30 CLIMB GRADIENT REQUIRED TO REACH MINIMUM LNAV ENGAGEMENT ALTITUDE PRIOR TO CF LEG.
  4. ABBREVIATED AMENDMENT, DOES NOT MEET PERIODIC REVIEW REQUIREMENTS.

**FLIGHT INSPECTED BY:**

JEFFREY ECKMAN

*Digitally signed by*  
**ROBERT G HAMILTON**  
Apr 02, 2018

**OFFICE SYMBOL:** FICO  
**DATE:** 4/9/18

**DEVELOPED BY:**

PETER GUIMOND  
*Digitally signed by*  
**PETER R GUIMOND**  
Feb 12, 2018

**OFFICE SYMBOL:** AJV-5422  
**DATE:** 02/12/2018

**APPROVED BY:**

JULIE MORGAN

*Digitally signed by*  
**ROBERT G HAMILTON**  
Apr 02, 2018

**OFFICE SYMBOL:** AJV-5420  
**DATE:**

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**COORDINATED WITH:**

<b>A4A</b>	<b>ALPA</b>	<b>AOPA</b>	<b>APA</b>	<b>HAI</b>	<b>NBAA</b>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**OTHER:**

ZLA, SOCAL DEP CON, LGB ATCT, AMGR

**CHANGES - REASONS:**

1. AMENDED ALL REFERENCES OF RWY 7L/25R TO RWY 8L/26R AND RWY 7R/25L TO RWY 8R/26L - WESTERN FPT REQUEST, RUNWAYS ARE BEING RENUMBERED.
2. ADDED NOTE: MAINTAIN AT OR BELOW 250 KIAS UNLESS OTHERWISE DIRECTED BY ATC - ATC REQUEST TO ENSURE SEPARATION FROM OTHER SOCAL SIDS.
3. REMOVED TAKEOFF OBSTACLES AND REPLACED WITH SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP) - IN ACCORDANCE WITH IMPLEMENTATION OF AFS WAIVER FOR FAA ORDER 8260.46F, DATED 12/27/2017.



**FEDERAL AVIATION ADMINISTRATION  
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DEPARTURE (DATA RECORD)**

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<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
<b>RW12 (AER)*</b>	334924.94N/1180930.16W*	N	-	-	-	-			*DISPL THLD (1350 FT)
600 MSL	-	-	-	VA	134.72	-			
OMMAA	334337.42N/1180221.25W	Y	FB	DF	-	-	AT 3000	AT/BELOW 210K	
PLTAA	334002.19W/1180450.11W	Y	FB	TF	210.04	4.14			
AAYJY	334107.97N/1181020.55W	Y	FB	TF	283.42	4.72			
QMARY	334541.01N/1181000.09W	Y	FB	TF	003.58	4.55	AT 4000	AT/BELOW 230K	
TOPMM	335141.96N/1181454.59W	Y	FB	TF	325.77	7.27			

<b>RW26R (AER)*</b>	334921.74N/1180841.60W*	N	-	-	-	-			*DISPL THLD (532 FT)
	334922.35N/1181213.09W	-	-	VI	270.20	2.94		AT/BELOW 210K	CG 270 FT/NM TO 600
TOPMM	335141.96N/1181454.59W	Y	FB	CF	316.02	3.23			RECOMMENDED NAVAID: ELB VOR/DME

<b>RW30 (AER)*</b>	334838.64N/1180834.16W*	N	-	-	-	-			*DISPL THLD (2000 FT)
	335100.77N/1181126.16W	-	-	VI	314.73	3.36			CG 285 FT PER NM TO 600
TOPMM	335141.96N/1181454.59W	Y	FB	CF	283.34	2.97			RECOMMENDED NAVAID: ELB VOR/DME



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<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
TOPMM	335141.96N/1181454.59W	Y	-	IF	-	-			TOPMM4.COREZ
PYPES	335400.43N/1182639.29W	Y	FB	TF	283.31	10.05	AT/ABOVE 7000		
PLTFM	335916.50N/1183008.90W	Y	FB	TF	331.09	6.01	AT/ABOVE 10000		
OVEUR	340559.64N/1183323.22W	Y	FB	TF	338.15	7.23			
OROSZ	342536.18N/1184027.01W	Y	FB	TF	343.38	20.43			
SHORS	344743.61N/1185607.37W	Y	FB	TF	329.72	25.60			
MDWAY	345830.50N/1190349.98W	Y	FB	TF	329.53	12.49			
COREZ	353324.00N/1192901.98W	Y	FB	TF	329.48	40.49			
TOPMM	335141.96N/1181454.59W	Y	-	IF	-	-			TOPMM4.CSTRO
PYPES	335400.43N/1182639.29W	Y	FB	TF	283.31	10.05	AT/ABOVE 7000		
PLTFM	335916.50N/1183008.90W	Y	FB	TF	331.09	6.01	AT/ABOVE 10000		
OVUER	340559.64N/1183323.22W	Y	FB	TF	338.15	7.23			
OROSZ	342536.18N/1184027.01W	Y	FB	TF	343.38	20.43			
HEYJO	344310.33N/1184353.04W	Y	FB	TF	350.83	17.77			
CSTRO	352652.66N/1191407.00W	Y	FB	TF	330.52	50.20			
TOPMM	335141.96N/1181454.59W	Y	-	IF	-	-			TOPMM4.IKAYE
RIGGR	335014.15N/1182432.84W	Y	FB	TF	259.73	8.16	AT/ABOVE 6000		
BOILL	334751.44N/1184942.54W	Y	FB	TF	263.66	21.10			
IKAYE	340835.00N/1190037.00W	Y	FB	TF	336.37	22.59			

