

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

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

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DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
HAWWC	THREE	HAWWC3.HAWWC	TWO	10/12/2017	19JULY2018
TYPE:	OBSTACLE	COPTER	SID	SPECIAL	RNAV
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DP ROUTE DESCRIPTION:

LONG BEACH /DAUGHERTY FIELD/

TAKEOFF RWY 8L: CLIMB HEADING 076.19 TO 580, THEN ON HEADING 076.20 OR AS ASSIGNED BY ATC FOR VECTORS TO PIJIN, CROSS PIJIN AT OR ABOVE 4000, THEN ON TRACK 289.79 TO CROSS HAWWC AT OR ABOVE 5000, THENCE...

TAKEOFF RWY 8R: CLIMB HEADING 075.95 TO 580, THEN ON HEADING 075.96 OR AS ASSIGNED BY ATC FOR VECTORS TO PIJIN, CROSS PIJIN AT OR ABOVE 4000, THEN ON TRACK 289.79 TO CROSS HAWWC AT OR ABOVE 5000, THENCE...

TAKEOFF RWY 12: CLIMB HEADING 120.72 TO 580, THEN ON HEADING 120.73 OR AS ASSIGNED BY ATC FOR VECTORS TO PIJIN, CROSS PIJIN AT OR ABOVE 4000, THEN ON TRACK 289.79 TO CROSS HAWWC AT OR ABOVE 5000, THENCE...

TAKEOFF RWY 26L: CLIMB HEADING 255.96 TO 800, THEN ON HEADING 270.00 OR AS ASSIGNED BY ATC FOR VECTORS TO PIJIN, CROSS PIJIN AT OR ABOVE 4000, THEN ON TRACK 289.79 TO CROSS HAWWC AT OR ABOVE 5000, THENCE...

TAKEOFF RWY 26R: CLIMB HEADING 256.20 TO 580, THEN ON HEADING 270.00 OR AS ASSIGNED BY ATC FOR VECTORS TO PIJIN, CROSS PIJIN AT OR ABOVE 4000, THEN ON TRACK 289.79 TO CROSS HAWWC AT OR ABOVE 5000, THENCE...

TAKEOFF RWY 30: CLIMB HEADING 300.73 TO 580, THEN ON HEADING 270.00 OR AS ASSIGNED BY ATC FOR VECTORS TO PIJIN, CROSS PIJIN AT OR ABOVE 4000, THEN ON TRACK 289.79 TO CROSS HAWWC AT OR ABOVE 5000, THENCE...

FULLERTON MUNI

TAKEOFF RWY 6: CLIMB HEADING 062.98 TO 596, THEN RIGHT TURN ON HEADING 120.00 TO 2000 FOR VECTORS TO PIJIN, CROSS PIJIN AT OR ABOVE 4000, THEN ON TRACK 289.79 TO CROSS HAWWC AT OR ABOVE 5000, THENCE...

TAKEOFF RWY 24: CLIMB HEADING 242.99 TO 596, THEN ON HEADING 240.00 TO 2000 FOR VECTORS TO PIJIN, CROSS PIJIN AT OR ABOVE 4000, THEN ON TRACK 289.79 TO CROSS HAWWC AT OR ABOVE 5000, THENCE...

JOHN WAYNE AIRPORT-ORANGE COUNTY

TAKEOFF RWY 2L: CLIMB HEADING 013.91 TO 560, THEN LEFT TURN ON HEADING 240.00 OR AS ASSIGNED BY ATC FOR VECTORS TO PIJIN, CROSS PIJIN AT OR ABOVE 4000, THEN ON TRACK 289.79 TO CROSS HAWWC AT OR ABOVE 5000, THENCE...

TAKEOFF RWY 20R: CLIMB HEADING 193.92 TO 557, THEN ON HEADING 210.00 OR AS ASSIGNED BY ATC FOR VECTORS TO PIJIN, CROSS PIJIN AT OR ABOVE 4000, THEN ON TRACK 289.79 TO CROSS HAWWC AT OR ABOVE 5000, THENCE...

LOS ALAMITOS AAF

TAKEOFF RWY 4R: CLIMB HEADING 041.00 TO 540, THEN ON HEADING 041.01 OR AS ASSIGNED BY ATC FOR VECTORS TO PIJIN, CROSS PIJIN AT OR ABOVE 4000, THEN ON TRACK 289.79 TO CROSS HAWWC AT OR ABOVE 5000, THENCE...

TAKEOFF RWY 22L: CLIMB HEADING 221.01 TO 540, THEN ON HEADING 181.00 OR AS ASSIGNED BY ATC FOR VECTORS TO PIJIN, CROSS PIJIN AT OR ABOVE 4000, THEN ON TRACK 289.79 TO CROSS HAWWC AT OR ABOVE 5000, THENCE...

ZAMPERINI FIELD

TAKEOFF RWY 11L: CLIMB HEADING 114.46 TO 2700 FOR VECTORS TO PIJIN, CROSS PIJIN AT OR ABOVE 4000, THEN ON TRACK 289.79 TO CROSS HAWWC AT OR ABOVE 5000, THENCE...

TAKEOFF RWY 11R: CLIMB HEADING 114.47 TO 2700 FOR VECTORS TO PIJIN, CROSS PIJIN AT OR ABOVE 4000, THEN ON TRACK 289.79 TO CROSS HAWWC AT OR ABOVE 5000, THENCE...

...ON (TRANSITION). MAINTAIN 6000. EXPECT HIGHER ALTITUDE 10 MINUTES AFTER DEPARTURE.



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HAWWC	THREE	HAWWC3.HAWWC	TWO	10/12/2017	19JULY2018

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

<u>TRANSITION NAME</u>	<u>TRANSITION COMPUTER CODE</u>	<u>FROM FIX/NAVAID</u>	<u>TO FIX/NAVAID</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>MEA</u>	<u>MOCA</u>	<u>CROSSING ALTITUDE/FIXES</u>
IKAYE	HAWWC3.IKAYE	HAWWC	WROBN	TRACK 310.03	6.83	5000	2700	WROBN AT 6000
			ORIYL	TRACK 285.40	5.63	6000	4500	
			MOOOS	TRACK 255.13	8.38	6000	5100	
			IKAYE	TRACK 279.92	13.59	6000	5200	

PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED.

NOTE: RNAV 1.

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: THIS PROCEDURE NOT AUTHORIZED FOR TURBOJET AIRCRAFT .

TAKEOFF MINIMUMS:

LONG BEACH/DAUGHERTY FIELD/

RWY 8L, 8R, 12, 30: STANDARD.

RWY 26L: STANDARD WITH MINIMUM CLIMB OF 330 FT PER NM TO 700.

RWY 26R: STANDARD WITH MINIMUM CLIMB OF 230 FT PER NM TO 1600.

FULLERTON MUNI

RWY 24: STANDARD.

RWY 6: STANDARD WITH MINIMUM CLIMB OF 280 FT PER NM TO 600.

JOHN WAYNE AIRPORT-ORANGE COUNTY

RWY 2R, 20L: NA-ATC.

RWY 2L: STANDARD.

RWY 20R: STANDARD WITH MINIMUM CLIMB OF 270 FT PER NM TO 1300.

LOS ALAMITOS AAF

RWY 4L, 22R: NA-ATC.

RWY 4R, 22L: STANDARD.

ZAMPERINI FIELD

RWY 29L, 29R: NA-ATC.

RWY 11L, 11R: STANDARD WITH MINIMUM CLIMB OF 325 FT PER NM TO 1600.

TAKEOFF OBSTACLES NOTES:

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



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CONTROLLING OBSTACLES:

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

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

PILOT NAVIGATION AREA:

7 NM ARC CENTERED ON PIJIN; CW
FROM: POINT A (BEARING 244.79 TO PIJIN)
TO: POINT B (BEARING 334.79 TO PIJIN)

CHART: MINIMUM CROSSING ALTITUDE AT PIJIN - 4000.

CHART: TOP ALTITUDE: 6000.
DO NOT CHART MOCA(S).

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
LONG BEACH/DAUGHERTY FIELD/ (KLGB)	LONG BEACH	CA
FULLERTON MUNI (KFUL)	FULLERTON	CA
JOHN WAYNE AIRPORT-ORANGE COUNTY (KSNA)	SANTA ANA	CA
LOS ALAMITOS AAF (KSLI)	LOS ALAMITOS	CA
ZAMPERINI FIELD (KTOA)	TORRANCE	CA

COMMUNICATIONS:

LONG BEACH/DAUGHERTY FIELD: ATIS, CLNC DEL, GND CON, SOCAL DEP CON
FULLERTON MUNI: ATIS, GND CON, SOCAL DEP CON
JOHN WAYNE AIRPORT-ORANGE COUNTY: ATIS, CLNC DEL, GND CON (E/W), TOWER, SOCAL DEP CON
LOS ALAMITOS AAF: TOWER, GND CON, SOCAL DEP CON
ZAMPERINI FIELD: TOWER, GND CON, SOCAL DEP CON

FIXES AND/OR NAVAIDS:



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- REMARKS:**
1. LONG BEACH/DAUGHERTY FIELD RWY 26L AND 26R CLIMB GRADIENTS MATCH PUBLISHED DIVERSE VECTOR AREA (DVA), AMDT 2 AT AIRPORT.
 2. JOHN WAYNE AIRPORT-ORANGE COUNTY RWY 20R CLIMB GRADIENT MATCHES PUBLISHED DIVERSE VECTOR AREA (DVA), AMDT 1 AT AIRPORT.
 3. DVA(S) AT LOS ALIMITOS AAF AND ZAMPERINI FIELD ON FILE. NOT PUBLISHED IN TPP BECAUSE THEY DO NOT REQUIRE NON-STANDARD CLIMB GRADIENTS.
 4. MOCA(S) NOT CHARTED PER ATC REQUEST.
 5. ABBREVIATED AMENDMENT, DOES NOT SATISFY PERIODIC REVIEW REQUIREMENTS.

FLIGHT INSPECTED BY:

THOMAS E MOLOKIE

OFFICE SYMBOL:

FICO

DATE:

4/18/18

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

OFFICE SYMBOL:

AJV-5420

DATE:

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
<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(S)

CHANGES - REASONS:

1. AMENDED ALL REFERENCES OF RWY 7L/25R TO RWY 8L/26R AND RWY 7R/25L TO RWY 8R/26L AT KLGB - WESTERN FPT REQUEST, RUNWAY IS BEING RENUMBERED.
2. REPLACED WORDING "...OR AS ASSIGNED BY ATC, EXPECT VECTORS TO PIJIN, CROSS PIJIN AT OR ABOVE 4000, THEN ON..." TO READ "...OR AS ASSIGNED BY ATC FOR VECTORS TO PIJIN, CROSS PIJIN AT OR ABOVE 4000, THEN ON..." - "EXPECT" IS NO LONGER AUTHORIZED TERMINOLOGY.
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.
4. ADDED CHART MINIMUMS CROSSING ALTITUDE AT PIJIN 4000 IN ADDITIONAL FLIGHT DATA - IN ACCORDANCE WITH FAO 8260.46F, APPENDIX E, PARA 10C.
5. AMENDED KLGB RW08R AER COORDINATES FROM 334849.78N/1180940.69W TO 334850.03N/1180940.69W ON FAA FORM 8260-15C - MATCH PENDING AIRNAV RWY DATA.
6. AMENDED KLGB RW26L AER COORDINATES FROM 334849.82N/1180854.25W TO 334850.06N/1180854.25W AND REMOVED DISPLACED THRESHOLD VALUES ON FAA FORM 8260-15C - MATCH PENDING AIRNAV RWY DATA.

05/07/2018: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 04/02/2018.

AMENDED LOS ALAMITOS AAF (KSLI) CLIMB-TO ALTITUDE FOR RWY 22L FROM 536 TO 540 TO MATCH CODED ALTITUDE ON FAA FORM 15C.



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 DEPARTURE (DATA RECORD)

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HAWWC	THREE	HAWWC3.HAWWC	TWO	10/12/2017	19JULY2018

<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>
LONG BEACH/DAUGHERTY FIELD (KLGB)									
RW08L (AER)*	334921.89N/1180933.22W*	N	-	-	-	-			*DISPL THLD (1305 FT)
580 MSL		-	-	VA	090.19	-			
		-	-	VM	090.20	-			
PIJIN	335203.19N/1181942.80W	Y	FB	DF	-	-	AT/ABOVE 4000		
RW08R (AER)	334850.03N/1180940.69W	N	-	-	-	-			
580 MSL		-	-	VA	089.95	-			
-		-	-	VM	089.96	-			
PIJIN	335203.19N/1181942.80W	Y	FB	DF	-	-	AT/ABOVE 4000		
RW12 (AER)*	334924.94N/1180930.16W*	N	-	-	-	-			*DISPL THLD (1350 FT)
580 MSL		-	-	VA	134.72	-			
-		-	-	VM	134.73	-			
PIJIN	335203.19N/1181942.80W	Y	FB	DF	-	-	AT/ABOVE 4000		
RW26L (AER)*	334850.06N/1180854.25W	N	-	-	-	-			
800 MSL		-	-	VA	269.96	-			CG 330 FT PER NM TO 700
-		-	-	VM	284.00	-			
PIJIN	335203.19N/1181942.80W	Y	FB	DF	-	-	AT/ABOVE 4000		



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HAWWC	THREE	HAWWC3.HAWWC	TWO	10/12/2017	19JULY2018

<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>
RW26R (AER)*	334921.74N/1180841.60W*	N	-	-	-	-			*DISPL THLD (532 FT)
580 MSL	-	-	-	VA	270.20	-			CG 230 FT/NM TO 1600
-	-	-	-	VM	284.00	-			
PIJIN	335203.19N/1181942.80W	Y	FB	DF	-	-	AT/ABOVE 4000		
RW30 (AER)*	334838.64N/1180834.16W*	N	-	-	-	-			*DISPL THLD (2000 FT)
580 MSL	-	-	-	VA	314.73	-			
-	-	-	-	VM	284.00	-			
PIJIN	335203.19N/1181942.80W	Y	FB	DF	-	-	AT/ABOVE 4000		
FULLERTON MUNI (KFUL)									
RW06 (AER)*	335216.76N/1175900.36W*	N	-	-	-	-			*DISPL THLD (427 FT)
596 MSL	-	-	-	VA	076.98	-			CG 280 FT/NM TO 600
-	-	-	-	VM	134.00	-			
PIJIN	335203.19N/1181942.80W	Y	FB	DF	-	-	AT/ABOVE 4000		
RW24 (AER)*	335222.20N/1175832.16W*	N	-	-	-	-			*DISPL THLD (253 FT)
596 MSL	-	-	-	VA	256.99	-			
-	-	-	-	VM	254.00	-			
PIJIN	335203.19N/1181942.80W	Y	FB	DF	-	-	AT/ABOVE 4000		



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HAWWC	THREE	HAWWC3.HAWWC	TWO	10/12/2017	19JULY2018

<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>
JOHN WAYNE AIRPORT-ORANGE COUNTY (KSNA)									
RW02L (AER)	334004.09N/1175225.79W	N	-	-	-	-			
560 MSL	-	-	-	VA	027.91	-			
-	-	-	-	VM	254.00	-			LEFT TURN
PIJIN	335203.19N/1181942.80W	Y	FB	DF	-	-	AT/ABOVE 4000		
RW20R (AER)									
557 MSL	-	-	-	VA	207.92	-			CG 270 FT PER NM TO 1300
-	-	-	-	VM	224.00	-			
PIJIN	335203.19N/1181942.80W	Y	FB	DF	-	-	AT/ABOVE 4000		
LOS ALAMITOS AAF (KSLI)									
RW04R (AER)	334701.61N/1180336.81W	N	-	-	-	-			
540 MSL	-	-	-	VA	055.00	-			
-	-	-	-	VM	055.01	-			
PIJIN	335203.19N/1181942.80W	Y	FB	DF	-	-	AT/ABOVE 4000		
RW22L (AER)									
540 MSL	-	-	-	VA	235.01	-			
-	-	-	-	VM	195.00	-			
PIJIN	335203.19N/1181942.80W	Y	FB	DF	-	-	AT/ABOVE 4000		



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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>
ZAMPERINI FIELD (KTOA)									
RW11L (AER)*	334825.69N/1182039.39W*	N	-	-	-	-	-	-	*DISPL THLD (541 FT)
2700 MSL	-	-	-	VA	128.46	-	-	-	CG 325 FT/NM TO 1600
-	-	-	-	VM	128.46	-	-	-	
PIJIN	335203.19N/1181942.80W	Y	FB	DF	-	-	AT/ABOVE 4000		
RW11R (AER)	334818.99N/1182038.81W	N	-	-	-	-	-	-	
2700 MSL	-	-	-	VA	128.47	-	-	-	CG 325 FT/NM TO 1600
-	-	-	-	VM	128.47	-	-	-	
PIJIN	335203.19N/1181942.80W	Y	FB	DF	-	-	AT/ABOVE 4000		
PIJIN	335203.19N/1181942.80W	Y	-	IF	-	-	AT/ABOVE 4000		
HAWWC	335454.92N/1182450.76W	Y	FB	TF	303.79	5.14	AT/ABOVE 5000		
HAWWC	335454.92N/1182450.76W	Y	-	IF	-	-	AT/ABOVE 5000		HAWWC3.IKAYE
WROBN	340026.89N/1182940.10W	Y	FB	TF	324.03	6.83	AT 6000		
ORIYL	340312.78N/1183534.07W	Y	FB	TF	299.40	5.63			
MOOOS	340304.69N/1184538.92W	Y	FB	TF	269.13	8.38			
IKAYE	340835.00N/1190037.00W	Y	FB	TF	293.92	13.59			

