

**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.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
HAWWC	ONE	HAWWC1.HAWWC	NONE		27 APR 2017

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

**DP ROUTE DESCRIPTION:****LONG BEACH /DAUGHERTY FIELD (KLGB):**

TAKEOFF RWY 07L: CLIMB HEADING 076.19 TO 580, THEN ON HEADING 076.20 OR AS ASSIGNED BY ATC, EXPECT VECTORS TO PIJIN, CROSS PIJIN AT OR ABOVE 4000, THEN ON TRACK 289.79 TO CROSS HAWWC AT OR ABOVE 5000, THENCE...

TAKEOFF RWY 07R: CLIMB HEADING 075.95 TO 580, THEN ON HEADING 075.96 OR AS ASSIGNED BY ATC, EXPECT 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, EXPECT VECTORS TO PIJIN, CROSS PIJIN AT OR ABOVE 4000, THEN ON TRACK 289.79 TO CROSS HAWWC AT OR ABOVE 5000, THENCE...

TAKEOFF RWY 25L: CLIMB HEADING 255.96 TO 800, THEN ON HEADING 270.00 OR AS ASSIGNED BY ATC, EXPECT VECTORS TO PIJIN, CROSS PIJIN AT OR ABOVE 4000, THEN ON TRACK 289.79 TO CROSS HAWWC AT OR ABOVE 5000, THENCE...

TAKEOFF RWY 25R: CLIMB HEADING 256.20 TO 580, THEN ON HEADING 270.00 OR AS ASSIGNED BY ATC, EXPECT 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, EXPECT VECTORS TO PIJIN, CROSS PIJIN AT OR ABOVE 4000, THEN ON TRACK 289.79 TO CROSS HAWWC AT OR ABOVE 5000, THENCE...

**FULLERTON MUNI (KFUL):**

TAKEOFF RWY 06: CLIMB HEADING 062.98 TO 596, THEN ON HEADING 120.00 TO 2000, EXPECT 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, EXPECT 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 (KSNA):**

TAKEOFF RWY 02L: CLIMB HEADING 013.91 TO 560, THEN ON HEADING 240.00 OR AS ASSIGNED BY ATC, EXPECT 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, EXPECT 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 (KSLI):**

TAKEOFF RWY 04R: CLIMB HEADING 041.00 TO 540, THEN ON HEADING 041.01 OR AS ASSIGNED BY ATC, EXPECT 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 536, THEN ON HEADING 181.00 OR AS ASSIGNED BY ATC, EXPECT VECTORS TO PIJIN, CROSS PIJIN AT OR ABOVE 4000, THEN ON TRACK 289.79 TO CROSS HAWWC AT OR ABOVE 5000, THENCE...

**ZAMPERINI FIELD (KTOA):**

TAKEOFF RWY 11L: CLIMB HEADING 114.46 TO 2700, EXPECT 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, EXPECT 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 ATC ASSIGNED ALTITUDE. EXPECT HIGHER ALTITUDE 10 MINUTES AFTER DEPARTURE.

**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	HAWWC1.IKAYE	HAWWC	WROBN	TRACK 310.03	6.83	5000	2700	WROBN AT 6000
		WROBN	ORIYL	TRACK 285.40	5.63	6000	4500	
		ORIYL	MOOOS	TRACK 255.13	8.38	6000	5100	

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3  
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HAWWC	ONE	HAWWC1.HAWWC	NONE		<b>27 APR 2017</b>
MOOOS	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 (KLGB):** RWY 07L, 07R, 12, 30: STANDARD. RWY 25L: STANDARD WITH MINIMUM CLIMB OF OF 330 FEET PER NM TO 700. RWY 25R: STANDARD WITH MINIMUM CLIMB OF OF 230 FEET PER NM TO 1600.

**FULLERTON MUNI (KFUL):** RWY 06: STANDARD WITH MINIMUM CLIMB OF 280 FEET PER NM TO 600. RWY 24: STANDARD.

**JOHN WAYNE AIRPORT-ORANGE COUNTY (KSNA):** RWY 02L: STANDARD. RWY 20R: STANDARD WITH MINIMUM CLIMB OF OF 270 FEET PER NM TO 1300.

**LOS ALAMITOS AAF (KSLI):** RWY 04R, 22L: STANDARD.

**ZAMPERINI FIELD (KTOA):** RWY 11L, 11R: STANDARD WITH MINIMUM CLIMB OF 325 FT PER NM TO 1600.

**TAKEOFF OBSTACLES NOTES:****LONG BEACH/DAUGHERTY FIELD (KLGB):**

NOTE: RWY 7L, BUILDING 347 FT FROM DER, 416 FT RIGHT OF CENTERLINE, 19 FT AGL/53 FT MSL. TREE 580 FT FROM DER, 12 FT RIGHT OF CENTERLINE, 67 FT MSL. POLES BEGINNING 606 FT FROM DER, 250 FT RIGHT OF CENTERLINE, UP TO 29 FT AGL/65 FT MSL. TREES BEGINNING 776 FT FROM DER, 243 FT RIGHT OF CENTERLINE, UP TO 111 FT MSL. TREES BEGINNING 1456 FT FROM DER, 203 FT RIGHT OF CENTERLINE, UP TO 117 FT MSL. VEHICLE ON ROAD 317 FT FROM DER, 248 FT LEFT OF CENTERLINE, 15 FT AGL/53 FT MSL. POLES BEGINNING 329 FT FROM DER, 308 FT LEFT OF CENTERLINE, UP TO 31 FT AGL/66 FT MSL. TREE 516 FT FROM DER, 137 FT LEFT OF CENTERLINE, 72 FT MSL.

NOTE: RWY 7R, TREES BEGINNING 327 FT FROM DER, 231 FT RIGHT OF CENTERLINE, UP TO 70 FT AGL/95 FT MSL. BUILDINGS BEGINNING 1473 FT FROM DER, 822 FT RIGHT OF CENTERLINE, UP TO 99 FT AGL/118 FT MSL. LIGHT POLES BEGINNING 380 FT FROM DER, 390 FT RIGHT OF CENTERLINE, UP TO 50 FT AGL/60 FT MSL. TREES BEGINNING 1208 FT FROM DER, 197 FT LEFT OF CENTERLINE, UP TO 71 FT AGL/101 FT MSL. BUILDINGS BEGINNING 277 FT FROM DER, 474 FT LEFT OF CENTERLINE, UP TO 42 FT AGL/72 FT MSL.

NOTE: RWY 12, TREES BEGINNING 969 FT FROM DER, 391 FT RIGHT OF CENTERLINE, UP TO 65 FT AGL/87 FT MSL. SPIRE 3094 FT FROM DER, 1182 FT RIGHT OF CENTERLINE, 98 FT AGL/118 FT MSL. TREES BEGINNING 1124 FT FROM DER, 357 FT LEFT OF CENTERLINE, UP TO 71 FT AGL/98 FT MSL. LIGHT POLE 1126 FT FROM DER, 607 FT LEFT OF CENTERLINE, 37 FT AGL/59 FT MSL. PIPE 1146 FT FROM DER, 334 FT LEFT OF CENTERLINE, 31 FT AGL/55 FT MSL.

NOTE: RWY 25L, TREE 2008 FT FROM DER, 182 FT RIGHT OF CENTERLINE, 73 FT AGL/107 FT MSL. LIGHT POLE 1283 FT FROM DER, 122 FT RIGHT OF CENTERLINE, 29 FT AGL/88 FT MSL. BUILDING 1149 FT FROM DER, 793 FT RIGHT OF CENTERLINE, 105 FT AGL/163 FT MSL. TOWER 3821 FT FROM DER, 439 FT RIGHT OF CENTERLINE, 75 FT AGL/158 FT MSL. LIGHT POLE 1283 FT FROM DER, 122 FT RIGHT OF CENTERLINE, 29 FT AGL/88 FT MSL. TREES BEGINNING 486 FT FROM DER, 91 FT LEFT OF CENTERLINE, UP TO 77 FT AGL/144 FT MSL. SIGNS BEGINNING 1074 FT FROM DER, 209 FT LEFT OF CENTERLINE, UP TO 35 FT AGL/108 FT MSL.

NOTE: RWY 25R, REIL 68 FT FROM DER, 59 FT RIGHT OF CENTERLINE, 5 FT AGL/68 FT MSL. TREE 243 FT FROM DER, 366 FT RIGHT OF CENTERLINE, 97 FT MSL. BUILDING 250 FT FROM DER, 204 FT RIGHT OF CENTERLINE, 30 FT AGL/93 FT MSL. POLE 623 FT FROM DER, 128 FT RIGHT OF CENTERLINE, 25 FT AGL/89 FT MSL. TREE 631 FT FROM DER, 409 FT RIGHT OF CENTERLINE, 122 FT MSL. TREES BEGINNING 1247 FT FROM DER, 2 FT RIGHT OF CENTERLINE, UP TO 133 FT MSL. BUILDING 1.1 NM FROM DER, 972 FT RIGHT OF CENTERLINE, 156 FT AGL/248 FT MSL. BUILDING 1.30 NM FROM DER, 655 FT RIGHT OF CENTERLINE, 157 FT AGL/259 FT MSL. FENCE 179 FT FROM DER, 8 FT LEFT OF CENTERLINE, 5 FT AGL/68 FT MSL. POLES BEGINNING 322 FT FROM DER, 111 FT LEFT OF CENTERLINE, UP TO 34 FT AGL/95 FT MSL. SIGN 1153 FT FROM DER, 5 FT LEFT OF CENTERLINE, 77 FT AGL/139 FT MSL. TREE 1259 FT FROM DER, 591 FT LEFT OF CENTERLINE, 127 FT MSL. TREE 2148 FT FROM DER, 249 FT LEFT OF CENTERLINE, 117 FT MSL.

NOTE: RWY 30, TREES BEGINNING 1596 FT FROM DER, 104 FT RIGHT OF CENTERLINE, UP TO 55 FT AGL/121 FT MSL. LIGHT POLES BEGINNING 356 FT FROM DER, 245 FT RIGHT OF CENTERLINE, UP TO 30 FT AGL/93 FT MSL. POLE 312 FT RIGHT OF CENTERLINE, 72 FT AGL/145 FT MSL. BUILDINGS BEGINNING 1338 FT FROM DER, 621 FT RIGHT OF CENTERLINE, UP TO 66 FT AGL/139 FT MSL. RAILROAD BEGINNING 648 FT FROM DER, ON CENTERLINE, 17 FT AGL/91 FT MSL. TREES BEGINNING 1205 FT FROM DER, 517 FT LEFT OF CENTERLINE, UP TO 65 FT AGL/130 FT MSL. LIGHT POLES BEGINNING 984 FT FROM DER, 69 FT LEFT OF CENTERLINE, UP TO 54 FT AGL/127 FT MSL. BUILDINGS BEGINNING 351 FT FROM DER, 289 FT LEFT OF CENTERLINE, UP TO 22 FT AGL/89 FT MSL. POLES BEGINNING 1939 FT FROM DER, 312 FT LEFT OF CENTERLINE, UP TO 54 FT AGL/127 FT MSL.

**FULLERTON MUNI (KFUL):**

NOTE: RWY 6, WINDSOCK 58 FT FROM DER, 189 FT RIGHT OF CENTERLINE, 12 FT AGL/109 FT MSL. OBSTRUCTION LIGHT ON POLE 109 FT FROM DER, 116 FT LEFT OF CENTERLINE, 23 FT AGL/118 FT MSL. MULTIPLE POLES BEGINNING 115 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 40 FT AGL/198 FT MSL. TRAINS 221 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 23 FT AGL/144 FT MSL. LIGHT STANDARD 486 FT FROM DER, 133 FT RIGHT OF CENTERLINE, 20' AGL/123 FT MSL. HOPPER ON BUILDING 977 FT FROM DER, 468' LEFT OF CENTERLINE, 36 FT AGL/132 FT MSL. OBSTRUCTION LIGHT ON BUILDING 1002 FT FROM DER, 31 FT RIGHT OF CENTERLINE, 25' AGL/128 FT MSL. LIGHT POLE 1247 FT FROM DER, 143 FT LEFT OF CENTERLINE, 35 FT AGL/131 FT MSL. TREE 1462 FT FROM DER, 35' LEFT OF CENTERLINE, 75 FT AGL/168 FT MSL. OBSTACLE LIGHT ON SILO 1620 FT FROM DER, 317 FT RIGHT OF CENTERLINE, 50' AGL/146 FT MSL. BUILDING 3206 FT FROM DER, 820 FT RIGHT OF CENTERLINE, 112 FT AGL/217 FT MSL. OBSTRUCTION LIGHT ON BUILDING 3390 FT FROM DER, 913 FT RIGHT OF CENTERLINE, 112' AGL/217 FT MSL. TOWER 6093 FT

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HAWWC	ONE	HAWWC1.HAWWC	NONE		<b>27 APR 2017</b>

FROM DER, 1936 FT LEFT OF CENTERLINE, 94 FT AGL/267 FT MSL.

NOTE: RWY 24, VEHICLES ON ROADWAY 82 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 15 FT AGL/114 FT MSL. LIGHT STANDARD 85 FT FROM DER, 260' RIGHT OF CENTERLINE, 25 FT AGL/110 FT MSL. LIGHT STANDARD 217' FROM DER, 320 FT LEFT OF CENTERLINE, 104 FT AGL/122 FT MSL. ANTENNA ON BUILDING 272 FT FROM DER, 227 FT LEFT OF CENTERLINE, 31 FT AGL/116 FT MSL. TREES BEGINNING 352 FT FROM DER, 227 FT RIGHT OF CENTERLINE, UP TO 60 FT AGL/155 FT MSL. POLE 395 FT FROM DER, 279 FT LEFT OF CENTERLINE, 35 FT AGL/123' MSL.

OBSTRUCTION LIGHT ON NAVAID 399 FT FROM DER, ON CENTERLINE, 5 FT AGL/103 FT MSL. POLES BEGINNING 1335 FT FROM DER, RIGHT AND LEFT OF CENTERLINE, UP TO 25 FT AGL/129 FT MSL. TREE 1377 FT FROM DER, 159 FT LEFT OF CENTERLINE, 50' AGL/147 FT MSL.

**JOHN WAYNE AIRPORT-ORANGE COUNTY (KSNA):**

NOTE: RWY 02L, POLE AND TREES BEGINNING 94 FT FROM DER, 490 FT LEFT OF CENTERLINE, UP TO 26 FT AGL/63 FT MSL. NAVAID 497 FT FROM DER, 625 FT RIGHT OF CENTERLINE, 19 FT AGL/55 FT MSL. TREES BEGINNING 970 FT FROM DER, 608 FT LEFT OF CENTERLINE, UP TO 90 FT AGL/127 FT MSL.

NOTE: RWY 20R, POLE AND TREES BEGINNING 204 FT FROM DER, 490 FT RIGHT OF CENTERLINE, UP TO 38 FT AGL/91 FT MSL. WSK ON HANGAR 536 FT FROM DER, 605 FT LEFT OF CENTERLINE, 40 FT AGL/92 FT MSL. POLES AND TREES BEGINNING 808 FT FROM DER, 489 FT RIGHT OF CENTERLINE, UP TO 58 FT AGL/108 FT MSL. TREE 1574 FT FROM DER, 765 FT LEFT OF CENTERLINE, 60 FT AGL/113 FT MSL.

**LOS ALAMITOS AAF (KSLI):**

NOTE: RWY 4 TREES 1062 FT FROM DER, 615 FT LEFT OF CENTERLINE, 66 FT AGL/100 FT MSL.

**CONTROLLING OBSTACLES:**

**LONG BEACH /DAUGHERTY FIELD (KLGB):** RWY 25L: 535 FT MSL TOWER (06-002240) 334758.02N/1180946.64W (CG AND CTA). RWY 25R: 248 FT MSL TOWER (06-036374) 334931.75N/1181108.17W (CG). 1679 FT MSL AAO 334448.02N/1182006.83W (CTA).

**FULLERTON MUNI (KFUL):** RWY 06: 292 FT MSL BLDG-TWR (06-002249) 335255.37N/1175725.50W (CG AND CTA).

**JOHN WAYNE AIRPORT-ORANGE COUNTY (KSNA):** RWY 20R: 899 FT MSL AAO 333629.33N/1175039.11W (CG). 939 FT MSL AAO 333557.49N/1175005.25W (CTA).

**ZAMPERINI FIELD (KTOA):** RWY 11L, 11R: 425 FT MSL TANK (06-028821) 334637.30N/1181846.69W (CG AND CTA).

**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.

ALL AIRPORTS - CHART: TOP ALTITUDE: ASSIGNED BY ATC.

DO NOT CHART MOCAS.

**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

QUALITY  
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HAWWC	ONE	HAWWC1.HAWWC	NONE		27 APR 2017

**COMMUNICATIONS:****LONG BEACH /DAUGHERTY FIELD (KLGB):** ATIS, CLNC DEL, GND OCN, SOCAL DEP CON**FULLERTON MUNI (KFUL):** ATIS, GND OCN, SOCAL DEP CON**JOHN WAYNE AIRPORT-ORANGE COUNTY (KSNA):** ATIS, CLNC DEL, GND CON (E/W), JOHN WAYNE TWR, SOCAL DEP CON**LOS ALAMITOS AAF (KSLI):** TWR, GND OCN, SOCAL DEP CON**ZAMPERINI FIELD (KTOA):** TWR, GND OCN, SOCAL DEP CON**FIXES AND/OR NAVAIDS:****REMARKS:****FLIGHT INSPECTED BY:**

JAMES MEEK

*Digitally signed by***BEV L BORDY**

Feb 24, 2017

**OFFICE SYMBOL:**

FIOG

**DATE:**

2/23/2017

*Digitally signed by***BEV L BORDY**

Feb 24, 2017

**OFFICE SYMBOL:**

AJV-5422

**DATE:**

12/23/2016

*Digitally signed by***BEV L BORDY**

Feb 24, 2017

**OFFICE SYMBOL:**

AJV-5420

**DATE:****DEVELOPED BY:**

JULIE MORGAN (LUCAS MCCLOUD)

**APPROVED BY:**

JULIE MORGAN

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**COORDINATED WITH:****A4A****ALPA****AOPA****APA****HAI****NBAA**☐☒☒☐☐☒**OTHER:**

ZLA, SOCAL DEP CON, ATCT (LGB, FUL, SNA, SLI, TOA), WESTERN FPT, AMGR (LGB, FUL, SNA, SLI, TOA)

**CHANGES - REASONS:**

QUALITY  
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CHECKED

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

DP NAME							NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
HAWWC							ONE	HAWWC1.HAWWC	NONE		27 APR 2017
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED		REMARKS	
LONG BEACH/DAUGHERTY FIELD (KLGB)											
RW07L (AER)*	334921.87N/1180933.20W*	N	-	-	-	-				* DISPL THLD (1305 FT)	
580 MSL	-	-	-	VA	090.19	-					
-	-	-	-	VM	090.20	-					
PIJIN	335203.19N/1181942.80W	Y	FB	DF	-	-	AT/ABOVE 4000				
RW07R (AER)	334849.77N/1180940.69W	N	-	-	-	-					
580 MSL	-	-	-	VA	089.95	-					
-	-	-	-	VM	089.96	-					
PIJIN	335203.19N/1181942.80W	Y	FB	DF	-	-	AT/ABOVE 4000				
RW12 (AER)*	334924.93N/1180930.15W*	N	-	-	-	-				* DISPL THLD (1351 FT)	
580 MSL	-	-	-	VA	134.72	-					
-	-	-	-	VM	134.73	-					
PIJIN	335203.19N/1181942.80W	Y	FB	DF	-	-	AT/ABOVE 4000				
RW25L (AER)*	334849.80N/1180854.46W*	N	-	-	-	-				* DISPL THLD (1523 FT)	
800 MSL	-	-	-	VA	269.96	-				CG 330 FT/NM TO 700	
-	-	-	-	VM	284.00	-					
PIJIN	335203.19N/1181942.80W	Y	FB	DF	-	-	AT/ABOVE 4000				
RW25R (AER)*	334921.72N/1180841.58W*	N	-	-	-	-				* DISPL THLD (530 FT)	

QUALITY

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3  
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HAWWC		ONE		HAWWC1.HAWWC		NONE			27 APR 2017
<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>
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/1180834.15W*	N	-	-	-	-			* DISPL THLD (2002 FT)
580 MSL	-	-	-	VA	314.73	-			
-	-	-	-	VM	284.00	-			
PIJIN	335203.19N/1181942.80W	Y	FB	DF	-	-	AT/ABOVE 4000		
<b>FULLERTON MUNI (KFUL)</b>									
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		
<b>JOHN WAYNE AIRPORT-ORANGE COUNTY (KSNA)</b>									
RW02L (AER)	334004.09N/1175225.79W	N	-	-	-	-			

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HAWWC		ONE	HAWWC1.HAWWC	NONE		27 APR 2017			
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
560 MSL	-	-	-	VA	027.91	-			
-	-	-	-	VM	254.00	-			
PIJIN	335203.19N/1181942.80W	Y	FB	DF	-	-	AT/ABOVE 4000		
RW20R (AER)	334053.93N/1175154.21W	N	-	-	-	-			
557 MSL	-	-	-	VA	207.92	-			CG 270 FT/NM TO 1300
-	-	-	-	VM	224.00	-			
PIJIN	335203.19N/1181942.80W	Y	FB	DF	-	-	AT/ABOVE 4000		
LOS ALAMITOS AAF (KSLI)									
RW04R (AER)	334701.62N/1180336.85W	N	-	-	-	-			
540 MSL	-	-	-	VA	055.00	-			
-	-	-	-	VM	055.01	-			
PIJIN	335203.19N/1181942.80W	Y	FB	DF	-	-	AT/ABOVE 4000		
RW22L (AER)	334747.01N/1180219.19W	N	-	-	-	-			
536 MSL	-	-	-	VA	235.01	-			
-	-	-	-	VM	195.00	-			
PIJIN	335203.19N/1181942.80W	Y	FB	DF	-	-	AT/ABOVE 4000		
ZAMPERINI FIELD (KTOA)									
RW11L (AER)*	334825.69N/1182039.39W*	N	-	-	-	-			* DISPL THLD (541 FT)

QUALITY

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QUALITY  
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CHECKED

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
DEPARTURE (DATA RECORD)**

<u>DP NAME</u>		<u>NUMBER</u>		<u>DP COMPUTER CODE</u>		<u>SUPERSEDED NUMBER</u>		<u>DATED</u>	<u>EFFECTIVE DATE</u>
HAWWC		ONE		HAWWC1.HAWWC		NONE			27 APR 2017
<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>
2700 MSL	-	-	-	VA	128.46	-			CG 325 FT/NM TO 1600
-	-	-	-	VM	128.47	-			
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	128.48	-			
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	05.14	AT/ABOVE 5000		
HAWWC	335454.92N/1182450.76W	Y	-	IF	-	-	AT/ABOVE 5000	HAWWC1.IKAYE	
WROBN	340026.89N/1182940.10W	Y	FB	TF	324.03	06.83	AT 6000		
ORIYL	340312.78N/1183534.07W	Y	FB	TF	299.40	05.63			
MOOOS	340304.69N/1184538.92W	Y	FB	TF	269.13	08.38			
IKAYE	340835.00N/1190037.00W	Y	FB	TF	293.92	13.59			

QUALITY  
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CHECKED