

**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SUPERSEDED NUMBER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>
BOACH	SEVEN	BOACH7.BOACH	SIX	4/30/2015	03/02/2017
<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:**

TAKEOFF RWY 1L/R: CLIMB HEADING 009.92 TO 2682, THEN LEFT TURN DIRECT BESSY, THEN ON TRACK 186.04 TO CROSS WITLA AT OR BELOW 10000 AND AT OR ABOVE 7900, THEN ON TRACK 187.41 TO JEBBB, THEN ON TRACK 147.38 TO CROSS BOACH AT OR ABOVE 13000, THENCE...

TAKEOFF RWY 7L: CLIMB HEADING 074.93 TO 2682, THEN DIRECT WASTE, THEN ON TRACK 075.31 TO CROSS BAKRR AT OR BELOW 7000 AND AT OR ABOVE 6000, THEN ON TRACK 144.16 TO CROSS MINEY AT OR ABOVE 8000, THEN ON TRACK 210.33 TO HITME, THEN ON TRACK 216.53 TO CROSS BOACH AT OR ABOVE 13000, THENCE...

TAKEOFF RWY 7R: CLIMB HEADING 074.93 TO 2682, THEN DIRECT JESJI, THEN ON TRACK 073.75 TO CROSS BAKRR AT OR BELOW 7000 AND AT OR ABOVE 6000, THEN ON TRACK 144.16 TO CROSS MINEY AT OR ABOVE 8000, THEN ON TRACK 210.33 TO HITME, THEN ON TRACK 216.53 TO CROSS BOACH AT OR ABOVE 13000, THENCE...

TAKEOFF RWY 19L: CLIMB HEADING 189.92 TO 2682, THEN DIRECT FIXIX, THEN ON TRACK 226.76 TO CROSS ROPPR AT OR BELOW 7000 AND AT OR ABOVE 4800, THEN ON TRACK 170.49 TO RODDD, THEN ON TRACK 159.69 TO CROSS BOACH AT OR ABOVE 13000, THENCE...

TAKEOFF RWY 19R: CLIMB HEADING 189.92 TO 2682, THEN DIRECT JAKER, THEN ON TRACK 226.01 TO CROSS ROPPR AT OR BELOW 7000 AND AT OR ABOVE 4800, THEN ON TRACK 170.49 TO RODDD, THEN ON TRACK 159.69 TO CROSS BOACH AT OR ABOVE 13000, THENCE...

TAKEOFF RWY 25L: CLIMB HEADING 254.95 TO 2682, THEN DIRECT PIRMD, THEN ON TRACK 186.12 TO CROSS ROPPR AT OR BELOW 7000 AND AT OR ABOVE 4800, THEN ON TRACK 170.49 TO RODDD, THEN ON TRACK 159.69 TO CROSS BOACH AT OR ABOVE 13000, THENCE...

TAKEOFF RWY 25R: CLIMB HEADING 254.95 TO 2682, THEN DIRECT RBELL, THEN ON TRACK 185.85 TO CROSS ROPPR AT OR BELOW 7000 AND AT OR ABOVE 4800, THEN ON TRACK 170.49 TO RODDD, THEN ON TRACK 159.69 TO CROSS BOACH AT OR ABOVE 13000, THENCE...

... (TRANSITION). MAINTAIN FL 190, EXPECT FILED 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>
HECTOR	BOACH7.HEC	BOACH	WHIGG	TRACK 212.74	15.15	13000		
		WHIGG	HEC VORTAC	TRACK 212.61	62.84	13000		
LVELL	BOACH7.LVELL	BOACH	RIKII	TRACK 166.85	10.33	13000		
		RIKII	ZELMA	TRACK 166.85	43.30	13000		
		ZELMA	JOTNU	TRACK 184.91	29.13	13000		
		JOTNU	LVELL	TRACK 196.53	8.11	13000		
RIKII	BOACH7.RIKII	BOACH	RIKII	TRACK 166.85	10.33	13000		
TWENTYNINE PALMS	BOACH7.TNP	BOACH	RIKII	TRACK 166.85	10.33	13000		
		RIKII	ZELMA	TRACK 166.85	43.30	13000		
		ZELMA	JOTNU	TRACK 184.91	29.13	13000		

QUALITY  
3  
CHECKED

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BOACH			SEVEN	BOACH7.BOACH	SIX		4/30/2015	3/02/2017
JOTNU			TNP VORTAC	TRACK 208.14	17.51	13000		
WHIGG	BOACH7.WHIGG	BOACH	WHIGG	TRACK 212.74	15.15	13000		

**PROCEDURAL DATA NOTES:**

NOTE: DME/DME/IRU OR GPS REQUIRED

NOTE: RNAV 1

NOTE: RADAR REQUIRED.

NOTE: DEPARTING RWY 1L/R: AT OR BELOW 230K UNTIL BESSY.

NOTE: FOR NON-GPS EQUIPPED AIRCRAFT DEPARTING RWYS 1L/R, LSV DME MUST BE OPERATIONAL.

**TAKEOFF MINIMUMS:**

RWY07L/R: STANDARD.

RWY 01L/R: STANDARD WITH A MINIMUM CLIMB OF 529 FEET PER NM TO 3700.

RWY 19L/R: STANDARD WITH A MINIMUM CLIMB OF 285 FEET PER NM TO 5600.

RWY 25L/R: STANDARD WITH A MINIMUM CLIMB OF 270 FEET PER NM TO 5500.

**TAKEOFF OBSTACLES NOTES:**

NOTE: RWY 1L, REIL 23 FT FROM DER, 153 FT LEFT OF CENTERLINE, 3 FT AGL/2090 FT MSL. SIGN BEGINNING 1037 FT FROM DER, 694 FT LEFT OF CENTERLINE, UP TO 2125 FT MSL. BLDG 1556 FT FROM DER, 551 FT LEFT OF CENTERLINE, 2129 FT MSL. BLDG 1779 FT FROM DER, 648 FT LEFT OF CENTERLINE, 2147 FT MSL. BLDGS BEGINNING 1907 FT FROM DER, 186 FT LEFT OF CENTERLINE, UP TO 2150 FT MSL. BLDGS BEGINNING 1977 FT FROM DER, 214 FT LEFT OF CENTERLINE, UP TO 2150 FT MSL. BLDGS BEGINNING 1983 FT FROM DER, 251 FT LEFT OF CENTERLINE, UP TO 2150 FT MSL. BLDG 2093 FT FROM DER, 333 FT LEFT OF CENTERLINE, 78 FT AGL/2150 FT MSL. BLDGS BEGINNING 2095 FT FROM DER, 274 FT LEFT OF CENTERLINE, UP TO 83 FT AGL/2153 FT MSL. BLDGS BEGINNING 3953 FT FROM DER, 1396 FT LEFT OF CENTERLINE, UP TO 162 FT AGL/2226 FT MSL. BLDG 4126 FT FROM DER, 1089 FT LEFT OF CENTERLINE, 2229 FT MSL. BLDG 4542 FT FROM DER, 1399 FT LEFT OF CENTERLINE, 183 FT AGL/2240 FT MSL. BLDG 4604 FT FROM DER, 1365 FT LEFT OF CENTERLINE, 186 FT AGL/2243 FT MSL.

NOTE: RWY 1R, SIGN 1336 FROM DER, 447 FT LEFT OF CENTERLINE, 60 FT AGL/2122 FT MSL. BLDG 609 FT FROM DER 539 FT RIGHT OF CENTERLINE, 28 FT SLG/2095 FT MSL.

NOTE: RWY 7L, POLE 744 FT FROM DER, 442 FT RIGHT OF CENTERLINE, 30 FT AGL/2057 FT MSL. TREE 758 FT FROM DER, 168 FT RIGHT OF CENTERLINE, 2068 FT MSL. TREE 768 FT FROM DER, 589 FT LEFT OF CENTERLINE, 2060 FT MSL. TREE 850 FT FROM DER, 184 FT LEFT OF CENTERLINE, 2067 FT MSL. TREES, BEGINNING 886 FT FROM DER, 372 FT RIGHT OF CENTERLINE, UP TO 2074 FT MSL.

NOTE: RWY 7R, TOWER 1457 FT FROM DER, 849 FT LEFT OF CENTERLINE, 64 FT AGL/2097 FT MSL.

NOTE: RWY 19L, GRD 60 FT FROM DER, 475 FT RIGHT OF CENTERLINE, 2186 FT MSL. GRD 151 FT FROM DER, 529 FT RIGHT OF CENTERLINE, 2190 FT MSL. BLDG BEGINNING 193 FT FROM DER, 443 FT RIGHT OF CENTERLINE, UP TO 9 FT AGL/2199 FT MSL. OL ON DME, NAVAID BEGINNING 261 FT FROM DER, 407 FT RIGHT OF CENTERLINE, UP TO 2206 FT MSL. VEHICLES ON RD, GRD, CONTROL BOX BEGINNING 348 FT FROM DER, 41 FT RIGHT OF CENTERLINE, UP TO 2208 FT MSL. POLE, VEHICLES ON RD BEGINNING 502 FT FROM DER, 434 FT RIGHT OF CENTERLINE, UP TO 2218 FT MSL. POLE, SIGN, VEHICLES ON RD, FLGPL, FENCE BEGINNING 592 FT FROM DER, 277 FT RIGHT OF CENTERLINE, UP TO 37 FT AGL/2234 FT MSL. SIGN, BLDG, POLE, TREE BEGINNING 844 FT FROM DER, 265 FT RIGHT OF CENTERLINE, UP TO 41 FT AGL/2240 FT MSL. TOWER, FENCE, SIGN BEGINNING 961 FT FROM DER, 175 FT RIGHT OF CENTERLINE, UP TO 41 FT AGL/2243 FT MSL. T-L TWR, POLE, RR, RR CROSSING SIGN, VEHICLES ON PARKING LOT BEGINNING 1132 FT FROM DER, 7 FT RIGHT OF CENTERLINE, UP TO 47 FT AGL/2249 FT MSL. RAILROAD BEGINNING 1219 FT FROM DER, 448 FT LEFT OF CENTERLINE, UP TO 2225 FT MSL. RR, POLE BEGINNING 1247 FT FROM DER, 76 FT LEFT OF CENTERLINE, UP TO 2226 FT MSL. TREE, POLES, SIGN BEGINNING 1392 FT FROM DER, 14 FT LEFT OF CENTERLINE, UP TO 36 FT AGL/2238 FT MSL. POLES, TREE, VEHICLES ON PARKING LOT, BLDG BEGINNING 1726 FT FROM DER, 10 FT RIGHT OF CENTERLINE, UP TO 2254 FT MSL. POLE, TREE BEGINNING 1822 FT FROM DER, 79 FT LEFT OF CENTERLINE, UP TO 34 FT AGL/2243 FT MSL. OL, TREE BEGINNING 1935 FT FROM DER, 12 FT LEFT OF CENTERLINE, UP TO 36 FT AGL/2245 FT MSL. POLE, TREE BEGINNING 2036 FT FROM DER, 5 FT LEFT OF CENTERLINE, UP TO 35 FT AGL/2246 FT MSL. POLES, BLDGS, TREE BEGINNING 2043 FT FROM DER, 220 FT RIGHT OF CENTERLINE, UP TO 2255 FT MSL. POLE, TREE BEGINNING 2133 FT FROM DER, 20 FT LEFT OF CENTERLINE, UP TO 36 FT AGL/2247 FT MSL. TREE, POLES, SIGN, BLDG BEGINNING 2146 FT FROM DER, 13 FT RIGHT OF CENTERLINE, UP TO 2259 FT MSL. POLE, BLDG, TREE BEGINNING 2234 FT FROM DER, 13 FT LEFT OF CENTERLINE, UP TO 35 FT AGL/2249 FT MSL. POLE, TREE BEGINNING 2335 FT FROM DER, 88 FT LEFT OF CENTERLINE, UP TO 36 FT AGL/2250 FT MSL. SIGN, TREE, POLE, BLDG BEGINNING 2381 FT FROM DER, 38 FT LEFT OF CENTERLINE, UP TO 41 FT AGL/2257 FT MSL. POLE, BLDG, TREE, BLDG BEGINNING 2496 FT FROM DER, 5 FT RIGHT OF CENTERLINE, UP TO 2274 FT MSL. BLDGS BEGINNING 2738 FT FROM DER, 196 FT RIGHT OF CENTERLINE, UP TO 57 FT AGL/2279 FT MSL. BLDG, TREE BEGINNING 2766 FT FROM DER, 73 FT RIGHT OF CENTERLINE, UP TO 57 FT AGL/2280 FT MSL. BLDGS BEGINNING 2767 FT FROM DER, 45 FT LEFT OF CENTERLINE, UP TO 36 FT AGL/2258 FT MSL. BLDGS, TREE BEGINNING 2893 FT FROM DER, 6 FT RIGHT OF CENTERLINE, UP TO 2288 FT MSL. BLDGS BEGINNING 2895 FT FROM DER, 3 FT LEFT OF CENTERLINE, UP TO 39 FT

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BOACH	SEVEN	BOACH7.BOACH	SIX	4/30/2015	03/02/2017

AGL/2262 FT MSL. BLDGS, TREE BEGINNING 3032 FT FROM DER, 300 FT RIGHT OF CENTERLINE, UP TO 61 FT AGL/2290 FT MSL. BLDGS, TREE, POLE BEGINNING 3076 FT FROM DER, 57 FT RIGHT OF CENTERLINE, UP TO 61 FT AGL/2291 FT MSL. BLDGS, SIGN, POLES BEGINNING 3459 FT FROM DER, 286 FT RIGHT OF CENTERLINE, UP TO 74 FT AGL/2302 FT MSL. BLDG 3495 FT FROM DER, 54 FT LEFT OF CENTERLINE, 52 FT AGL/2278 FT MSL. COMM TWR 5717 FT FROM DER, 157 FT LEFT OF CENTERLINE, 80 FT AGL/2327 FT MSL. BLDG 5358 FT FROM DER, 1759 FT LEFT OF CENTERLINE, 110 FT AGL/2334 FT MSL.

NOTE: RWY 19R, BLDG 609 FT FROM DER, 538 FT RIGHT OF CENTERLINE, 28 FT AGL/2095 FT MSL. SIGN 1336 FT FROM DER, 447 FT RIGHT OF CENTERLINE, 60 FT AGL/2122 FT MSL.

NOTE: RWY 25L, BLDG 1002 FT FROM DER, 250 FT LEFT OF CENTERLINE, 6 FT AGL/2183 FT MSL. RAILROAD, POLE BEGINNING 1856 FT FROM DER, 794 FT LEFT OF CENTERLINE, UP TO 2215 FT MSL. RAILROAD 2067 FT FROM DER, 796 FT LEFT OF CENTERLINE, 2218 FT MSL. POLE, RAILROAD BEGINNING 2148 FT FROM DER, 800 FT LEFT OF CENTERLINE, UP TO 2221 FT MSL. TREE, RAILROAD BEGINNING 2375 FT FROM DER, 781 FT LEFT OF CENTERLINE, UP TO 2232 FT MSL. TREE, RAILROAD BEGINNING 2527 FT FROM DER, 751 FT LEFT OF CENTERLINE, UP TO 2233 FT MSL. POLE 2860 FT FROM DER, 812 FT LEFT OF CENTERLINE, 36 FT AGL/2238 FT MSL. POLE BEGINNING 3166 FT FROM DER, 1092 FT LEFT OF CENTERLINE, UP TO 34 FT AGL/2243 FT MSL. POLE BEGINNING 3312 FT FROM DER, 1201 FT LEFT OF CENTERLINE, UP TO 35 FT AGL/2246 FT MSL. SIGN, POLE, T-L TWR BEGINNING 3672 FT FROM DER, 146 FT LEFT OF CENTERLINE, UP TO 2256 FT MSL. POLE BEGINNING 4223 FT FROM DER, 1394 FT LEFT OF CENTERLINE, UP TO 2274 FT MSL. BLDG 4554 FT FROM DER, 1594 FT LEFT OF CENTERLINE, 2277 FT MSL. BLDG 4686 FT FROM DER, 1686 FT LEFT OF CENTERLINE, 53 FT AGL/2279 FT MSL. BLDG 4718 FT FROM DER, 1756 FT LEFT OF CENTERLINE, 61 FT AGL/2290 FT MSL. BLDG 4953 FT FROM DER, 1696 FT LEFT OF CENTERLINE, 61 FT AGL/2291 FT MSL. TRMSN TWR 5469 FT FROM DER, 1057 FT LEFT OF CENTERLINE, 2297 FT MSL. POLE BEGINNING 5703 FT FROM DER, 2020 FT RIGHT OF CENTERLINE, UP TO 101 FT AGL/2309 FT MSL. POLE 5887 FT FROM DER, 1923 FT LEFT OF CENTERLINE, 45 FT AGL/2311 FT MSL. POLE 5889 FT FROM DER, 1722 FT LEFT OF CENTERLINE, 46 FT AGL/2311 FT MSL. TOWER 1 NM FROM DER, 1845 FT LEFT OF CENTERLINE, 80 FT AGL/2332 FT MSL.

NOTE: RWY 25R, OL ON DME, NAVAID, BLDG BEGINNING 533 FT FROM DER, 367 FT LEFT OF CENTERLINE, UP TO 2206 FT MSL. NAVAID, OL ON LOC BEGINNING 533 FT FROM DER, ON CENTERLINE, UP TO 5 FT AGL/2195 FT MSL. VEHICLE ON ROAD 665 FT FROM DER, CROSSING CENTERLINE, 2208 FT MSL. POLE 785 FT FROM DER, 592 FT LEFT OF CENTERLINE, 2218 FT MSL. POLE, TREE BEGINNING 785 FT FROM DER, 8 FT LEFT OF CENTERLINE, UP TO 2220 FT MSL. TREES BEGINNING 820 FT FROM DER, 49 FT RIGHT OF CENTERLINE, UP TO 25 FT AGL/2214 FT MSL. POLE, SIGN, TREE, BLDG BEGINNING 873 FT FROM DER, 348 FT LEFT OF CENTERLINE, UP TO 37 FT AGL/2234 FT MSL. TREES BEGINNING 952 FT FROM DER, 48 FT RIGHT OF CENTERLINE, UP TO 2233 FT MSL. POLE, TREE, RAILROAD BEGINNING 1092 FT FROM DER, 531 FT LEFT OF CENTERLINE, UP TO 38 FT AGL/2237 FT MSL. TREES BEGINNING 1559 FT FROM DER, 554 FT RIGHT OF CENTERLINE, UP TO 2259 FT MSL. TREE, BLDG, RAILROAD BEGINNING 1811 FT FROM DER, 192 FT LEFT OF CENTERLINE, UP TO 2246 FT MSL. BLDG 2500 FT FROM DER, 882 FT LEFT OF CENTERLINE, 2254 FT MSL. POLE BEGINNING 3001 FT FROM DER, 544 FT LEFT OF CENTERLINE, UP TO 44 FT AGL/2271 FT MSL. POLE BEGINNING 3004 FT FROM DER, 770 FT LEFT OF CENTERLINE, UP TO 48 FT AGL/2277 FT MSL. POLE BEGINNING 3116 FT FROM DER, 1021 FT RIGHT OF CENTERLINE, UP TO 2309 FT MSL. SIGN BEGINNING 3338 FT FROM DER, 279 FT LEFT OF CENTERLINE, UP TO 2286 FT MSL. COMMUNICATION TWR 4521 FT FROM DER, 703 FT RIGHT OF CENTERLINE, 2332 FT MSL. POLE 1.4 NM FROM DER, 2804 FT LEFT OF CENTERLINE, 100 FT AGL/2444 FT MSL. POLE BEGINNING 1.5 NM FROM DER, 2835 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/2455 FT MSL. POLE, COMMUNICATION TWR BEGINNING 1.6 NM FROM DER, 2072 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/2463 FT MSL. POLE 1.7 NM FROM DER, 2964 FT LEFT OF CENTERLINE, 135 FT AGL/2469 FT MSL. +

**CONTROLLING OBSTACLES:**

RWY 01L/R: 3229 FEET MSL MONUMENT 360850.71N/1150919.85W.

RWY 19L/R: 4753 FEET MSL AAO 355443.00N/1151908.00W.

RWY 25L/R: 3905 FEET MSL AAO 355901.00N/1151908.00W (CLIMB GRADIENT), 4753 FEET MSL AAO 355443.00N/1151908.00W (CLIMB-TO ALTITUDE).

**LOST COMMUNICATIONS PROCEDURES:**

**ADDITIONAL FLIGHT DATA:**

CHART: TOP ALTITUDE FL190

DME/DME ASSESSMENT SAT: RNP (2.0)

REFERENCE MAG VAR: KLAS 15E EPOCH YR: 1980

CHART: SPEED ICON MAXIMUM SPEED 230 KIAS AT BESSY

CHART: WITLA AT OR ABOVE 7900 AND AT OR BELOW 10000.

CHART: BOACH AT OR ABOVE 13000.

CHART: BAKRR AT OR ABOVE 6000 AND AT OR BELOW 7000.

CHART: MINEY AT OR ABOVE 8000.

CHART: ROPPR AT OR ABOVE 4800 AND AT OR BELOW 7000.



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BOACH	SEVEN	BOACH7.BOACH	SIX	4/30/2015	03/02/2017

**AIRPORTS SERVED:**

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
MC CARRAN INTL	LAS VEGAS	NV

**COMMUNICATIONS:**

ATIS, CLNC DEL, GND CON, LAS TWR, LAS DEP CON

**FIXES AND/OR NAVAIDS:**

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BOACH	SEVEN	BOACH7.BOACH	SIX	4/30/2015	03/02/2017

**REMARKS:**

APPROVAL LETTER SUBMITTED TO AFS FOR RWY 01L/R CG EXCEEDING 500 FT/NM.

**FLIGHT INSPECTED BY:**

PENDING

*Digitally signed by*

**BEV L BORDY**

Dec 21, 2016

**OFFICE SYMBOL:**

FIOG

**DATE:**

**DEVELOPED BY:**

RALPH DUMAR

**RALPH ALAN DUMAR**

Digitally signed by RALPH ALAN DUMAR  
Date: 2016.09.20 10:20:35 -05'00'

**OFFICE SYMBOL:**

AJV-5422

**DATE:**

09/20/2016

**APPROVED BY:**

LONNIE EVERHART

*Digitally signed by*

**BEV L BORDY**

Dec 21, 2016

**OFFICE SYMBOL:**

AJV-5430

**DATE:**

**REQUIRED EFFECTIVE DATE:**

03/02/2017

**COORDINATED WITH:**

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

**OTHER:**

ZLA ARTCC, ZAB ARTCC, LAS TWR, LAS APCH CON, AMGR.

**CHANGES - REASONS:**

1. CHANGED ALL LNAV ENGAGEMENT ALTITUDES FROM 2681 TO 2682.
2. ADDED RIKII, LVELL, AND WHIGG WAYPOINTS AND ENROUTE TRANSITIONS.
3. REMOVED 4 NON-GPS EQUIPPED AIRCRAFT NOTES.
4. TAKEOFF MINIMUMS: CHANGED RWY 1L/R FROM '1100-3 WITH MINIMUM CLIMB OF 500 FT PER NM TO 6000' TO 'STANDARD WITH A MINIMUM CLIMB OF 529 FEET PER NM TO 3700' AND REMOVED ATC CG PORTION 'THEN MINIMUM CLIMB OF 345 FT PER NM TO 13000'.
5. TAKEOFF MINIMUMS: CHANGED RWY 7L/R FROM 'STANDARD WITH MINIMUM CLIMB OF 400 FT PER NM TO 8000' TO 'STANDARD'.
6. TAKEOFF MINIMUMS: CHANGED RWY 19L/R FROM 'STANDARD WITH MINIMUM CLIMB OF 437 FT PER NM TO 13000' TO 'STANDARD WITH A MINIMUM CLIMB OF 285 FEET PER NM TO 5600'.
7. TAKEOFF MINIMUMS: CHANGED RWY 25L/R FROM 'STANDARD WITH MINIMUM CLIMB OF 417 FT PER NM TO 13000' TO 'STANDARD WITH A MINIMUM CLIMB OF 270 FEET PER NM TO 5500'.
8. UPDATED TAKEOFF OBSTACLE NOTES FOR ALL RUNWAYS.

1. PREVIOUS ALTITUDE WAS DERIVED FROM ROUNDING DOWN FROM AIRPORT ELEVATION 2181.3 FT.
2. REQUESTED BY SOCAL METROPLEX WORKING GROUP.
3. NOT REQUIRED PER SOCAL METROPLEX WORKING GROUP.
4. STRATOSPHERE TOWER HEIGHT INCREASED FROM 3189 TO 3229. ATC CLIMB GRADIENT REMOVED PER 8260.46F. 529 FT/NM CG MATCHES MCCARRAN FOUR SID.
- 5-7. ATC CLIMB GRADIENTS REMOVED PER 8260.46F AND REPLACED WITH OBSTACLE CLIMB GRADIENTS.
8. TO MATCH PUBLISHED TEXTUAL DEPARTURE OBSTACLE NOTES.

QUALITY  
3  
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>
BOACH		SEVEN		BOACH7.BOACH		SIX		4/30/2015	03/02/2017
<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>
RW01L (AER)*	360436.44N/1151010.30W*	N	-	-	-	-			*DISPL THLD (587.0 FEET)
2682 MSL		-	-	VA	024.92	-			CG 529 FT PER NM TO 3700
BESSY	360627.67N/1151722.56W	Y	FB	DF	-	-		AT/BELOW 230K	LEFT TURN
WITLA	355841.89N/1152103.00W	Y	FB	TF	201.04	8.30	AT/BELOW 10000 AT/ABOVE 7900		
JEBBB	355438.27N/1152306.50W	Y	FB	TF	202.41	4.39			
BOACH	354041.62N/1151740.88W	Y	FB	TF	162.38	14.61	AT/ABOVE 13000		
RW01R (AER)*	360431.67N/115100.44W*	N	-	-	-	-			*DISPL THLD (491.0 FEET)
2682 MSL		-	-	VA	024.92	-			CG 529 FT PER NM TO 3700
BESSY	360627.67N/1151722.56W	Y	FB	DF	-	-		AT/BELOW 230K	LEFT TURN
WITLA	355841.89N/1152103.00W	Y	FB	TF	201.04	8.30	AT/BELOW 10000 AT/ABOVE 7900		
JEBBB	355438.27N/1152306.50W	Y	FB	TF	202.41	4.39			
BOACH	354041.62N/1151740.88W	Y	FB	TF	162.38	14.61	AT/ABOVE 13000		
RW07L (AER)*	360434.95N/1150946.63W*	N	-	-	-	-			*DISPL THLD (2138.0 FEET)
2682 MSL		-	-	VA	089.93	-			
WASTE	360435.14N/1150425.72W	Y	FB	DF	-	-			
BAKRR	360433.00N/1145711.00W	Y	FB	TF	090.31	5.87	AT/BELOW 7000 AT/ABOVE 6000		
MINEY	355743.00N/1145359.00W	Y	FB	TF	159.16	7.30	AT/ABOVE 8000		
HITME	354917.00N/1150427.00W	Y	FB	TF	225.33	11.97			
BOACH	354041.62N/1151740.88W	Y	FB	TF	231.53	13.77	AT/ABOVE 13000		

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

DP NAME							NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
BOACH							SEVEN	BOACH7.BOACH	SIX	4/30/2015	03/02/2017
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED		REMARKS	
RW07R (AER)	360425.06N/1150941.16W	N	-	-	-	-					
2682 MSL		-	-	VA	089.93	-					
JESJI	360425.22N/1150442.73W	Y	FB	DF	-	-					
BAKRR	360433.00N/1145711.00W	Y	FB	TF	088.75	6.10	AT/BELOW 7000 AT/ABOVE 6000				
MINEY	355743.00N/1145359.00W	Y	FB	TF	159.16	7.30	AT/ABOVE 8000				
HITME	354917.00N/1150427.00W	Y	FB	TF	225.33	11.97					
BOACH	354041.62N/1151740.88W	Y	FB	TF	231.53	13.77	AT/ABOVE 13000				
RW19L (AER)*	360547.01N/1150917.31W*	N	-	-	-	-				*DISPL THLD (878.0 FEET)	
2682 MSL		-	-	VA	204.92	-				CG 285 FT PER NM TO 5600	
FIXIX	360054.10N/1151204.79W	Y	FB	DF	-	-					
ROPPR	355816.27N/1151805.99W	Y	FB	TF	241.76	5.55	AT/BELOW 7000 AT/ABOVE 4800				
RODDD	355126.49N/1151854.35W	Y	FB	TF	185.49	6.85					
BOACH	354041.62N/1151740.88W	Y	FB	TF	174.69	10.78	AT/ABOVE 13000				
RW19R (AER)	360551.77N/1150927.19W	N	-	-	-	-					
2682 MSL		-	-	VA	204.92	-				CG 285 FT PER NM TO 5600	
JAKER	360053.20N/1151217.95W	Y	FB	DF	-	-					
ROPPR	355816.27N/1151805.99W	Y	FB	TF	241.01	5.38	AT/BELOW 7000 AT/ABOVE 4800				
RODDD	355126.49N/1151854.35W	Y	FB	TF	185.49	6.85					
BOACH	354041.62N/1151740.88W	Y	FB	TF	174.69	10.78	AT/ABOVE 13000				
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**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
DEPARTURE (DATA RECORD)**

DP NAME							NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
BOACH							SEVEN	BOACH7.BOACH	SIX	4/30/2015	03/02/2017
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED		REMARKS	
RW25L (AER)	360425.17N/1150732.97W	N	-	-	269.95	-					
2682 MSL		-	-	VA	-	-				CG 270 FT PER NM TO 5500	
PIRMD	360424.61N/1151511.00W	Y	FB	DF	-	-					
ROPPR	355816.27N/1151805.99W	Y	FB	TF	201.12	6.57	AT/BELOW 7000 AT/ABOVE 4800				
RODDD	355126.49N/1151854.35W	Y	FB	TF	185.49	6.85					
BOACH	354041.62N/1151740.88W	Y	FB	TF	174.69	10.78	AT/ABOVE 13000				
RW25R (AER)*	360435.06N/1150732.94W*	N	-	-	269.95	-				*DISPL THLD (1397.0 FEET)	
2682 MSL		-	-	VA	-	-				CG 270 FT PER NM TO 5500	
RBELL	360434.51N/1151508.75W	Y	FB	DF	-	-					
ROPPR	355816.27N/1151805.99W	Y	FB	TF	200.85	6.74	AT/BELOW 7000 AT/ABOVE 4800				
RODDD	355126.49N/1151854.35W	Y	FB	TF	185.49	6.85					
BOACH	354041.62N/1151740.88W	Y	FB	TF	174.69	10.78	AT/ABOVE 13000				
BOACH	354041.62N/1151740.88W	Y	-	IF	-	-				BOACH7.HEC	
WHIGG	353028.53N/1153125.09W	Y	FB	TF	227.74	15.15					
HEC VORTAC	344749.26N/1162746.52W	Y	FB	TF	227.61	62.84					
BOACH	354041.62N/1151740.88W	Y	-	IF	-	-				BOACH7.LVELL	
RIKII	353020.91N/1151805.42W	Y	FB	TF	181.85	10.33					
ZELMA	344659.99N/1151947.51W	Y	FB	TF	181.85	43.30					
JOTNU	341933.11N/1153146.29W	Y	FB	TF	199.91	29.13					

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

DP NAME							NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
BOACH							SEVEN	BOACH7.BOACH	SIX	4/30/2015	03/02/2017
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS		
LVELL	341237.38N/1153653.25W	Y	FB	TF	211.53	8.11					
BOACH	354041.62N/1151740.88W	Y	-	IF	-	-			BOACH7.RIKII		
RIKII	353020.91N/1151805.42W	Y	FB	TF	181.85	10.33					
BOACH	354041.62N/1151740.88W	Y	-	IF	-	-			BOACH7.TNP		
RIKII	353020.91N/1151805.42W	Y	FB	TF	181.85	10.33					
ZELMA	344659.99N/1151947.51W	Y	FB	TF	181.85	43.30					
JOTNU	341933.11N/1153146.29W	Y	FB	TF	199.91	29.13					
TNP VORTAC	340644.04N/1154611.66W	Y	FB	TF	223.14	17.51					
BOACH	354041.62N/1151740.88W	Y	-	IF	-	-			BOACH7.WHIGG		
WHIGG	353028.53N/1153125.09W	Y	FB	TF	227.74	15.15					

