

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation 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. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BOACH	SIX	BOACH6.BOACH	FIVE	15 NOV 2012	30 APR 2015

TYPE: RVAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 1L/R: CLIMB HEADING 009.92 TO 2681, 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 074.96 TO 2681, 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 074.96 TO 2681, 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 2681, 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 189.91 TO 2681, 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 254.93 TO 2681, 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 254.93 TO 2681, 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...

...VIA (TRANSITION) MAINTAIN FL 190, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
HECTOR	BOACH6.HEC	BOACH	HEC VORTAC	212.74 TRACK	78.00	13000	10000	
TWENTYNINE PALMS	BOACH6.TNP	BOACH	ZELMA	166.86 TRACK	53.64	13000	10000	
		ZELMA	JOTNU	184.91 TRACK	29.13	13000	10000	
		JOTNU	TNP VORTAC	208.13 TRACK	17.52	13000	10000	

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

TAKEOFF MINIMUMS

RWY 1L/R: 1100-3 WITH MINIMUM CLIMB OF 500 FT PER NM TO 6000, THEN MINIMUM CLIMB OF 345 FT PER NM TO 13000.

RWY 7L/R: STANDARD WITH MINIMUM CLIMB OF 400 FT PER NM TO 8000.

RWY 19L/R: STANDARD WITH MINIMUM CLIMB OF 437 FT PER NM TO 13000.

RWY 25L/R: STANDARD WITH MINIMUM CLIMB OF 417 FT PER NM TO 13000.

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: RNAV 1.

NOTE: RADAR REQUIRED.



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NOTE: FOR NON-GPS EQUIPPED AIRCRAFT DEPARTING RWY 1L/R: LSV, BLD, DAG, EED AND HEC DME'S MUST BE OPERATIONAL FOR THE HECTOR TRANSITION.

NOTE: FOR NON-GPS EQUIPPED AIRCRAFT DEPARTING RWY 1L/R: LSV, BLD, GFS, EED, HEC AND TNP DME'S MUST BE OPERATIONAL FOR THE TWENTYNINE PALMS TRANSITION.

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

NOTE: FOR NON-GPS EQUIPPED AIRCRAFT DEPARTING RWYS 7L/R, 19L/R, 25L/R, BLD,DAG, EED AND HEC DME'S MUST BE OPERATIONAL FOR THE HECTOR TRANSITION.

NOTE: FOR NON-GPS EQUIPPED AIRCRAFT DEPARTING RWYS 7L/R, 19L/R, 25L/R, BLD,GFS, EED, HEC AND TNP DME'S MUST BE OPERATIONAL FOR THE TWENTYNINE PALMS TRANSITION.

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

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 1L, BUILDING 1508 FT FROM DER, 463 FT LEFT OF CENTERLINE, 71 FT AGL/2146 FT MSL. POLE 453 FT FROM DER, 283 FT LEFT OF CENTERLINE, 38 FT AGL/2118 FT MSL. SIGN 1042 FT FROM DER, 694 FT LEFT OF CENTERLINE, 35 FT AGL/2124 FT MSL.

NOTE: RWY 1R, SIGN 1331 FT FROM DER, 448 FT RIGHT OF CENTERLINE, 60 FT AGL/2120 FT MSL. VENTS 604 FT FROM DER, 539 FT RIGHT OF CENTERLINE, UP TO 17 FT AGL/2095 FT MSL.

NOTE: RWY 7L, TREES 761 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 42 FT AGL/ 2074 FT MSL. POLE 747 FT FROM DER, 442 FT RIGHT OF CENTERLINE, 25 FT AGL/2057 FT MSL.

NOTE: RWY 7R, TOWER 1457 FT FROM DER, 847 FT RIGHT OF CENTERLINE, 65 FT AGL/2096 FT MSL.

NOTE: RWY 19L, MULTIPLE BUILDINGS, TREES AND POLES BEGINNING 1394 FT FROM DER, 251 FT RIGHT OF CENTERLINE, UP TO 96 FT AGL/2284 FT MSL. SIGN 2181 FT FROM DER, 1062 FT RIGHT OF CENTERLINE, 36 FT AGL/2236 FT MSL.

NOTE: RWY 19R, TREES BEGINNING 1563 FROM DER, 329 FT LEFT OF CENTERLINE, UP TO 55 FT AGL/2236 FT MSL. MULTIPLE BUILDINGS SIGNS AND POLES BEGINNING 197 FT FROM DER, 59 FT RIGHT OF CENTERLINE, UP TO 75 FT AGL/2291 FT MSL.

NOTE: RWY 25L, MULTIPLE POLES, SIGN AND BUILDINGS BEGINNING 1003 FT FROM DER, 145 FT LEFT OF CENTERLINE, UP TO 97 FT AGL/2291 FT MSL. TREE 2837 FT FROM DER, 1008 FT LEFT OF CENTERLINE, 72 FT AGL/2230 FT MSL. RAILROAD 2564 FT FROM DER, 773 FT LEFT OF CENTERLINE, 66 FT AGL/2223 FT MSL.

NOTE: RWY 25R, MULTIPLE POLES AND TREES BEGINNING 533 FT FROM DER, 1 FT LEFT OF CENTERLINE, UP TO 271 FT AGL/2457 FT MSL. BUILDING 1822 FT FROM DER, 652 FT LEFT OF CENTERLINE, 59 FT AGL/2238 FT MSL. ROADS BEGINNING 669 FT FROM DER, 17 FT RIGHT OF CENTERLINE, UP TO 29 FT AGL/2208 FT MSL.

CONTROLLING OBSTACLES:

RWY 1L/R: 3189 FT MSL MONUMENT 360851.00N/1150920.00W. RWY 19L/R, 25L/R: 5895 FT MSL AAO 355317.70/1152314.50W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

CHART: TOP ALTITUDE: FL190

DME/DME ASSESMENT: SAT (RNP 2.0)

REFERENCE MAG VAR: KLAS 15E, EPOCH YR 1980

AIRPORTS SERVED:

MCCARRAN INTL

LAS VEGAS, NV



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COMMUNICATIONS:

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

FIXES AND/OR NAVAIDS:**REMARKS:****COORDINATED WITH:**

ATA,ALPA, , AOPA, NBAA, ZLA,ZAB, LAS TWR, LAS APCH CON, AMGR

CHANGES:

ADDED CHART: TOP ALTITUDE: FL190.

REASONS:

ATC REQUEST



DEPARTURE (DATA RECORD)

DP Name		Number	DP Computer Code				Superseded Number	Dated	Effective Date
BOACH		SIX	BOACH6.BOACH				FIVE	15 NOV 2012	30 APR 2015
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW01L (AER)*	360436.44N/1151010.30W	N	-	-	-	-			*DISPL THLD (584)
2681 MSL		-	-	VA	024.92	-			CG 500 FT/NM TO 6000 THEN A CG 345 FT/NM TO 13000
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)*	360431.68N/1151000.43W*	N	-	-	-	-			*DISPL THLD (491)
2681 MSL		-	-	VA	024.92	-			CG 500 FT/NM TO 6000 THEN A CG 345 FT/NM TO 13000
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	-	-	-	-			*DISL THLD (2139)
2681 MSL		-	-	VA	089.96	-			CG 400 FT/NM TO 8000
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		
RW07R (AER)	360425.06N/1150941.16W	N	-	-	-	-			
2681 MSL		-	-	VA	089.96	-			CG 400 FT/NM TO 8000
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		

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BOACH		SIX	BOACH6.BOACH				FIVE	15 NOV 2012	30 APR 2015
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW19L (AER)	360547.06N/1150917.28W	N	-	-	-	-			
2681 MSL		-	-	VA	204.92	-			CG CG 437 FT/NM TO 13000
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)	360551.76N/1150927.19W	N	-	-	-	-			
2681 MSL		-	-	VA	204.91	-			CG 437 FT/NM TO 13000
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		
RW25L (AER)	360425.16N/1150732.96W	N	-	-	-	-			
2681 MSL		-	-	VA	269.93	-			CG 417 FT/NM TO 13000
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)*	360435.05N/1150732.97W*	N	-	-	-	-			*DISPL THLD (1397)
2681 MSL		-	-	VA	269.93	-			CG 417 FT/NM TO 13000
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	-	-			BOACH6.HEC
HEC VORTAC	344749.26N/1162746.52W	Y	FB	TF	227.74	78.00			

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BOACH		SIX	BOACH6.BOACH				FIVE		15 NOV 2012	30 APR 2015
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS	
BOACH	354041.62N/1151740.88W	Y	-	IF	-	-			BOACH6.TNP	
ZELMA	344659.99N/1151947.51W	Y	FB	TF	181.86	53.64				
JOTNU	341933.11N/1153146.29W	Y	FB	TF	199.91	29.13				
TNP VORTAC	340644.01N/1154611.68W	Y	FB	TF	223.13	17.52				