

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
JACAL	SEVEN	JACAL7.JACAL	SIX	15 DEC 2011	25 JUNE 2015

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 5: CLIMB HEADING 055.47 TO 1260, THEN DIRECT VEAZY, THEN LEFT TURN DIRECT JACAL, THENCE...
 TAKEOFF RWY 18L: CLIMB HEADING 182.97 TO 1260, THEN DIRECT HISOR, THEN ON DEPICTED ROUTE TO JACAL, THENCE...
 TAKEOFF RWY 18C: CLIMB HEADING 182.96 TO 1260, THEN DIRECT GIRGY, THEN ON DEPICTED ROUTE TO JACAL, THENCE...
 TAKEOFF RWY 18R: CLIMB HEADING 182.96 TO INTERCEPT COURSE 203.88 TO WEKIN, THEN ON DEPICTED ROUTE TO JACAL, THENCE...
 TAKEOFF RWY 23: CLIMB HEADING 235.48 TO 1260, THEN DIRECT UNCOT, THEN ON DEPICTED ROUTE TO JACAL, THENCE...
 TAKEOFF RWY 36R: CLIMB HEADING 002.97 TO INTERCEPT COURSE 027.70 TO KAYFO, THEN ON DEPICTED ROUTE TO JACAL, THENCE...
 TAKEOFF RWY 36C: CLIMB HEADING 002.96 TO INTERCEPT COURSE 324.84 TO EBAWI, THEN ON DEPICTED ROUTE TO JACAL, THENCE...
 TAKEOFF RWY 36L: CLIMB HEADING 002.96 TO INTERCEPT COURSE 306.96 TO JIMAL, THEN ON DEPICTED ROUTE TO JACAL, THENCE...

...MAINTAIN 8000. EXPECT CLEARANCE TO FILED ALTITUDE WITHIN 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
NALEY	JACAL7.NALEY	JACAL	JOTTA	TRACK 12.88	18.22	6900	3600	
		JOTTA	NALEY	TRACK 12.82	20.35	10700	4000	

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: FOR TURBOJETS ONLY. NOTE: IF UNABLE TO ACCEPT CLIMB RATES, ADVISE ATC ON INITIAL CONTACT. NOTE: TRANSPONDER CODE WILL BE ISSUED VIA PDC OR CHARLOTTE CLNC DEL.

NOTE: DME/DME/IRU OR GPS REQUIRED. NOTE: RADAR REQUIRED. NOTE: RNAV 1.

TAKEOFF MINIMUMS: RWY 5, 18L, 18C, 18R, 23, 36R, 36C, 36L, STANDARD WITH MINIMUM CLIMB OF 500 FEET PER NM TO 1260.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 5: TREES BEGINNING 1031' FROM DER, 480' LEFT OF CENTERLINE UP TO 127' AGL/856' MSL.

NOTE: RWY 18L: TOWER AND POLE BEGINNING 981' FROM DER, 708' LEFT OF CENTERLINE, UP TO 160' AGL/850' MSL. TREES BEGINNING 1235' FROM DER, 707' RIGHT OF CENTERLINE, UP TO 88' AGL/767' MSL.

NOTE: RWY 18C: TREES BEGINNING 1688' FROM DER, 735' LEFT OF CENTERLINE, UP TO 108' AGL/787' MSL. TREES BEGINNING 3251' FROM DER, 995' RIGHT OF CENTERLINE, UP TO 102' AGL/841' MSL.

NOTE: RWY 23: TREES BEGINNING 3899' FROM DER, 216' LEFT OF CENTERLINE, UP TO 99' AGL/818' MSL. TREES BEGINNING 1491' FROM DER, 603' RIGHT OF CENTERLINE, UP TO 74' AGL/823' MSL.

NOTE: RWY 36C: TREES BEGINNING 1937' FROM DER, 725' LEFT OF CENTERLINE, UP TO 54' AGL/ 823' MSL. TREES BEGINNING 1420' FROM DER, 309' RIGHT OF CENTERLINE UP TO 114' AGL/ 823' MSL.

NOTE: RWY 36R: POLE AND TREES BEGINNING 713' FROM DER, 416' LEFT OF CENTERLINE, UP TO 94' AGL/853' MSL. RAILROAD, ANTENNA, POLES AND TREES BEGINNING 471' FROM DER, 93' RIGHT OF CENTERLINE, UP TO 93' AGL/852' MSL.

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CONTROLLING OBSTACLES:

RWY 5: 1634 MSL TOWER 351339.00N/0805032.00W.
RWY 36C: 2755 MSL TOWER 352049.00N/0811014.00W.
RWY 36L: 2755 MSL TOWER 352049.00N/0811014.00W.

LOST COMMUNICATIONS PROCEDURES:**ADDITIONAL FLIGHT DATA:**

CHART: TOP ALTITUDE: 8000
REFERENCE MAG VAR: KCLT 7W EPOCH YR:00.
DME/DME/IRU ASSESSMENT: SAT (RNP 2.0).
CHART NOTE: ACCELERATE TO 250 KIAS, IF UNABLE, ADVISE ATC.
CHART NOTE: DO NOT EXCEED 280 KIAS UNTIL ADVISED BY ATC.

AIRPORTS SERVED:

CHARLOTTE/DOUGLAS INTL

CHARLOTTE, NC

COMMUNICATIONS:

ATIS, TOWER, GND CON, CLNC DEL, CLT DEP CON

FIXES AND/OR NAVAIDS:

ZASRO, TASIE, STOLT, KATSE, GLADI

REMARKS:

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REQUIRED EFFECTIVE DATE:

ROUTINE

CHANGES:

1. ADDED CHART: TOP ALTITUDE: 8000

REASONS:

1. REQUESTED BY ATC

DEPARTURE (DATA RECORD)

DP Name		Number	DP Computer Code				Superseded Number	Dated	Effective Date
JACAL		SEVEN	JACAL7.JACAL				SIX	15 DEC 2011	25 JUNE 2015
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW05 (AER)	351232.23N/0805659.81W	N	-	-	-	-			
1260 MSL	-	-	-	VA	048.47	01.03			CG 500 FT/NM TO 1260
VEAZY	351516.92N/0805313.06W	Y	FO	DF	-	-			
JACAL	354244.21N/0805315.73W	Y	FB	DF	-	27.41			LEFT TURN
RW18C (AER)	351338.63N/0805711.41W	N	-	-	-	-			
1260 MSL	-	-	-	VA	175.96	-			CG 500 FT/NM TO 1260
GIRGY	350924.11N/0805649.52W	Y	FB	DF	-	-			
ZASRO	350531.50N/0805806.15W	Y	FB	TF	195.15	04.01			
TASIE	350534.50N/0810629.35W	Y	FB	TF	270.46	06.88			
STOLT	350757.23N/0811313.79W	Y	FB	TF	293.27	06.02			
KATSE	351615.34N/0811349.56W	Y	FB	TF	356.63	08.30			
GLADI	352502.05N/0805849.82W	Y	FB	TF	054.38	15.08			
JACAL	354244.21N/0805315.73W	Y	FB	TF	014.39	18.25			
RW18L (AER)	351329.04N/0805610.17W	N	-	-	-	-			
1260 MSL	-	-	-	VA	175.97	-			CG 500 FT/NM TO 1260
HISOR	350911.03N/0805548.13W	Y	FB	DF	-	-			
ZASRO	350531.50N/0805806.15W	Y	FB	TF	207.33	04.11			
TASIE	350534.50N/0810629.35W	Y	FB	TF	270.46	06.88			
STOLT	350757.23N/0811313.79W	Y	FB	TF	293.27	06.02			
KATSE	351615.34N/0811349.56W	Y	FB	TF	356.63	08.30			
GLADI	352502.05N/0805849.82W	Y	FB	TF	054.38	15.08			
JACAL	354244.21N/0805315.73W	Y	FB	TF	014.39	18.25			
RW18R (AER)	351331.02N/0805802.73W	N	-	-	-	-			
	-	-	-	VI	175.96	02.52			CG 500 FT/NM TO 1260. DO NOT CHART DISTANCE
WEKIN	350644.11N/0805924.15W	Y	FB	CF	196.88	04.45			
TASIE	350534.50N/0810629.35W	Y	FB	TF	258.77	05.93			
STOLT	350757.23N/0811313.79W	Y	FB	TF	293.27	06.02			
KATSE	351615.34N/0811349.56W	Y	FB	TF	356.63	08.30			
GLADI	352502.05N/0805849.82W	Y	FB	TF	054.38	15.08			

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS	
JACAL	354244.21N/0805315.73W	Y	FB	TF	014.39	18.25				
RW23 (AER)	351321.42N/0805552.12W	N	-	-	-	-				
1260 MSL	-	-	-	VA	228.47	-			CG 500 FT/NM TO 1260	
UNCOT	351037.47N/0805937.56W	Y	FB	DF	-	-				
TASIE	350534.50N/0810629.35W	Y	FB	TF	228.18	07.56				
STOLT	350757.23N/0811313.79W	Y	FB	TF	293.27	06.02				
KATSE	351615.34N/0811349.56W	Y	FB	TF	356.63	08.30				
GLADI	352502.05N/0805849.82W	Y	FB	TF	054.38	15.08				
JACAL	354244.21N/0805315.73W	Y	FB	TF	014.39	18.25				
RWY36C (AER)	351159.97N/0805702.92W	N	-	-	-	-				
	-	-	-	VI	355.96	02.80			CG 500 FT/NM TO 1260 DO NOT CHART DISTANCE.	
EBAWI	351744.41N/0810032.68W	Y	FB	CF	317.84	03.97				
GLADI	352502.05N/0805849.82W	Y	FB	TF	010.89	07.42				
JACKAL	354244.21N/0805315.73W	Y	FB	TF	014.39	18.25				
RW36L (AER)	351202.22N/0805755.08W	N	-	-	-	-				
	-	-	-	VI	355.96	02.52				
JIMAL	351719.74N/0810400.47W	Y	FB	CF	299.96	05.55				
GLADI	352502.05N/0805849.82W	Y	FB	TF	028.81	08.78				
JACAL	354244.21N/0805315.73W	Y	FB	TF	014.39	18.25				
RW36R (AER)	351203.45N/0805602.82W	N	-	-	-	-				
	-	-	-	VI	355.97	02.47			CG 500 FT/NM TO 1260. DO NOT CHART DISTANCE	
KAYFO	351817.91N/0805431.11W	Y	FB	CF	020.70	04.03				
JACAL	354244.21N/0805315.73W	Y	FB	TF	002.40	24.42				
JACAL	354244.21N/0805315.73W	-	-	IF	-	-			JACAL7.NALEY	
JOTTA	360053.03N/0805057.79W	Y	FB	TF	005.88	18.22				
NALEY	362109.07N/0804824.51W	Y	FB	TF	005.82	20.35				

QUALITY

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