

**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SUPERSEDED NUMBER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>ACTUAL EFFECTIVE DATE</u>
ESTRR	SEVEN	ESTRR7.ESTRR	SIX	05/14/2026	9 JUL 2026
<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
☐	☐	☒	☐	☐	☒

DP ROUTE DESCRIPTION:**CLT:****TAKEOFF RWY 19L:** CLIMB ON HEADING 182.96 TO 1260, THEN ON HEADING 182.96 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO GINNN, THENCE...**TAKEOFF RWY 18L:** CLIMB ON HEADING 182.97 TO 1260, THEN ON HEADING 182.97 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO GINNN, THENCE...**TAKEOFF RWY 19R:** CLIMB ON HEADING 182.96 TO 1260, THEN ON HEADING 200.00 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO GINNN, THENCE...**TAKEOFF RWY 1R:** CLIMB ON HEADING 002.96 TO 1260, THEN ON HEADING 330.00 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO GINNN, THENCE...**TAKEOFF RWY 1L:** CLIMB ON HEADING 002.96 TO 1260, THEN ON HEADING 315.00 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO GINNN, THENCE...**TAKEOFF RWY 36R:** CLIMB ON HEADING 002.97 TO 1260, THEN ON HEADING 025.00 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO GINNN, THENCE...

...ON TRACK 254.92 TO ESTRR, THEN ON IPTAY TRANSITION. MAINTAIN 8000. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

JQF:**TAKEOFF RWY 2:** CLIMB ON HEADING 016.46 TO 2200, THEN ON HEADING ASSIGNED BY ATC, THENCE...**TAKEOFF RWY 20:** CLIMBING LEFT TURN HEADING 150.00 TO 2400, THEN ON HEADING ASSIGNED BY ATC, THENCE...**AKH:****TAKEOFF RWY 3:** CLIMB ON HEADING 049.34 TO 2700 BEFORE TURNING LEFT, THEN ON HEADING ASSIGNED BY ATC, THENCE...**TAKEOFF RWY 21:** CLIMB ON HEADING 214.33 TO 1600 BEFORE PROCEEDING NORTH, THEN ON HEADING ASSIGNED BY ATC, THENCE...**IPJ:****TAKEOFF RWY 5:** CLIMB ON HEADING 063.15 TO 2000 BEFORE PROCEEDING ON COURSE, THEN ON HEADING ASSIGNED BY ATC, THENCE...**TAKEOFF RWY 23:** CLIMB ON HEADING 243.16 TO 2800 BEFORE TURNING LEFT, THEN ON HEADING ASSIGNED BY ATC, THENCE....**RUQ:****TAKEOFF RWY 2:** CLIMB ON HEADING ASSIGNED BY ATC, THENCE...**TAKEOFF RWY 20:** CLIMB ON HEADING 201.99 TO 1700 BEFORE TURNING RIGHT, THEN ON HEADING ASSIGNED BY ATC, THENCE...

... FOR RADAR VECTORS TO GINNN, THEN ON TRACK 254.92 TO ESTRR, THEN ON IPTAY TRANSITION. MAINTAIN 3000, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

DEPARTING EQY, LKR, VUJ, AND UZA: CLIMB ON HEADING ASSIGNED BY ATC FOR RADAR VECTORS TO GINNN, THEN ON TRACK 254.92 TO ESTRR, THEN ON IPTAY TRANSITION. MAINTAIN 3000, 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>
IPTAY	ESTRR7.IPTAY	ESTRR	DEBIE	TRACK 255.36	11.46	7600	2700	
		DEBIE	IPTAY	TRACK 242.99	61.78	FL180	2900	

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ESTRR	SEVEN	ESTRR7.ESTRR	SIX	05/14/2026	9 JUL 2026

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS.

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED.

PROCEDURAL DATA NOTES:**NOTE:** TURBOJET ONLY.**NOTE:** IF UNABLE TO ACCEPT CLIMB RATES, ADVISE ATC ON INITIAL CONTACT.**NOTE:** TRANSPONDER CODE WILL BE ISSUED VIA PDC OR CLT CLNC DEL.**NOTE:** CLT ONLY: ACCELERATE TO 250 KIAS, IF UNABLE ADVISE ATC. UPON REACHING 10000 MSL, ACCELERATE TO AND MAINTAIN 280 KIAS, IF UNABLE ADVISE ATC.**NOTE:** ALL OTHER AIRPORTS: UPON REACHING 10000 MSL, ACCELERATE TO AND MAINTAIN 280 KIAS, IF UNABLE ADVISE ATC.**TAKEOFF MINIMUMS:****CLT:****RWY 19L, 18L, 19R, 1R, 36R:** STANDARD WITH MINIMUM CLIMB OF 500 FT/NM TO 1260.**RWY 1L:** STANDARD WITH MINIMUM CLIMB OF 500 FT/NM TO 1400.**JQF:****RWY 2:** STANDARD.**RWY 20:** STANDARD WITH MINIMUM CLIMB OF 320 FT/NM TO 2400.**AKH:****RWY 3, 21:** STANDARD.**EQY:****RWY 5, 23:** STANDARD.**IPJ:****RWY 5, 23:** STANDARD.**LKR:****RWY 6, 24:** STANDARD.**VUJ:****RWY 4L, 22R:** NA - ENVIRONMENTAL.**RWY 22L:** STANDARD**RWY 4R:** 300-1 3/4 OR STANDARD WITH MINIMUM CLIMB OF 315 FT/NM TO 1000.**RUQ****RWY 2:** STANDARD.**RWY 20:** 400-2 3/4 OR STANDARD WITH MINIMUM CLIMB OF 205 FT/NM TO 1300, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT/NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1200 FT PRIOR TO DER.**UZA:****RWY 2, 20:** STANDARD.**TAKEOFF OBSTACLES NOTES:**

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

CONTROLLING OBSTACLES:**CLT:****RWY 1L:** 2748 FT MSL TOWER 352145.00N/0810918.00W.

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JQF:**RWY 20:** 1950 FT MSL TOWER 351715.00N/0804144.00W.**VUJ:****RWY 4R:** 732 FT MSL TREE (37-111225) 352557.53N/0800829.12W (CLIMB GRADIENT), 803 FT MSL TREE (37-112801) 352620.07N/0800816.77W (CLIMB TO ALTITUDE), 820 FT MSL TREE (37-116182) 352627.52N/0800810.70W (CEILING), 790 FT MSL (37-114938) 352637.40N/0800804.59N (VISIBILITY).**RUQ:****RWY 20:** 1121 FT MSL TOWER 353613.00N/0803234.12W.**MSA:**CLT,3800
JQF, 3800
AKH, 3800
EQY,3100
IPJ, 3800
LKR, 2300
VUJ, 3100
RUQ, 3400
UZA, 3800**LOST COMMUNICATIONS PROCEDURES:****ADDITIONAL FLIGHT DATA:**

AIRPORT MV: CLT (P) 7W/2000, JQF 6W/1995, AKH 6W/2000, EQY 6W/1990, IPJ 6W/1995, LKR 7W/2000, VUJ 6W/1985, RUQ 6W/1985, UZA 5W/1990.

DME/DME ASSESSMENT: SAT (RNP 2.0)

CLT - CHART: TOP ALTITUDE 8000**JQF, AKH, EQY, IPJ, LKR, VUJ, RUQ, UZA - CHART:** TOP ALTITUDE 3000.**AIRPORTS SERVED:**

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
CLT	CHARLOTTE	NC
JQF	CONCORD	NC
AKH	GASTONIA	NC
EQY	MONROE	NC
IPJ	LINCOLNTON	NC
LKR	LANCASTER	SC
VUJ	ALBEMARLE	NC
RUQ	SALISBURY	NC
UZA	ROCK HILL	SC

COMMUNICATIONS:**CLT:** CHART: ATIS, CLNC DEL, GND CON, TOWER, CPDLC.**JQF:** CHART: ATIS, CLNC DEL, GND CON, TOWER, UNICOM.

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AKH: CHART: ASOS, CLNC DEL, UNICOM.
EQY: CHART: ASOS, CLNC DEL, UNICOM.
IPJ: CHART: AWOS, CLNC DEL (GCO), UNICOM.
LKR: CHART: AWOS, GCO, UNICOM.
VUJ: CHART: ATIS, CLNC DEL, GND CON, TOWER.
RUQ: CHART: AWOS, CLNC DEL, UNICOM.
UZA: CHART: ASOS, CLNC DEL, UNICOM

FIXES AND/OR NAVAIDS:

BGRED, CHOPZ

REMARKS:

JQF RWY 20 CLIMB GRADIENT ROUNDED TO 320 FT PER NM FOR PUBLICATION (COMPUTED VALUE 317 FT PER NM).
 RUQ RWY 20 CLIMB GRADIENT ROUNDED TO 205 FT PER NM FOR PUBLICATION (COMPUTED VALUE 202 FT PER NM).
 ABBREVIATED AMENDMENT.
 CHART NOTE: (CLT ONLY) SEE ADDITIONAL REQUIREMENTS ON AAUP.
 CLT, JQF, AKH, EQY, IPJ, LKR, VUJ, RUQ, UZA: ORDER 8260.3G, LEGACY ICA USED FOR DESIGN AND EVALUATION.

<u>FLIGHT INSPECTED BY</u>	<u>SIGNATURE</u>		<u>OFFICE</u>	<u>DATE</u>	
PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021, SUBJECT:GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/ VALIDATION.		<i>Digitally signed by</i> CASIMIR L TABAKA Jan 26, 2026			
	<u>SIGNATURE</u>		<u>OFFICE</u>	<u>DATE</u>	
<u>DEVELOPED BY</u> <i>Digitally signed by</i> JACOB H CLARK JACOB CLARK Jan 14, 2026			AJV-A432	11/14/2025	
	<u>SIGNATURE</u>	<i>Digitally signed by</i> CASIMIR L TABAKA Jan 26, 2026	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
<u>APPROVED BY</u> CASIMIR TABAKA			AJV-A432		MANAGER

REQUIRED EFFECTIVE DATE

ROUTINE

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZTL, CLT APP CON, CLT ATCT, JQF ATCT, VUJ ATCT, AMGR(S).

CHANGES - REASONS:

1. ALL INSTANCES OF KCLT RWY NUMBERS CHANGED FROM 36C/18C TO 1R/19L - RUNWAY RENUMBERED DUE TO PREVIOUS MAGVAR UPDATE.
2. REMARKS: ADDED CLT, JQF, AKH, EQY, IPJ, LKR, VUJ, RUQ, UZA: ORDER 8260.3G, LEGACY ICA USED FOR DESIGN AND EVALUATION - IAW 8260.46K PARA 2-1-1.I



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

DP NAME						NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
ESTRR						SEVEN	ESTRR7.ESTRR	SIX	05/14/2026	9 JUL 2026
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS	
RW19L (AER)	351338.63N/0805711.41W	N	-	-	-	-				
1260 MSL		-	-	VA	175.96	-	AT/ABOVE 1260		CG 500 FT/NM TO 1260	
		-	-	VM	175.96	-				
RW18L (AER)	351329.04N/0805610.17W	N	-	-	-	-				
1260 MSL		-	-	VA	175.97	-	AT/ABOVE 1260		CG 500 FT/NM TO 1260	
		-	-	VM	175.97	-				
RW19R (AER)	351331.02N/0805802.71W	N	-	-	-	-				
1260 MSL		-	-	VA	175.96	-	AT/ABOVE 1260		CG 500 FT/NM TO 1260	
		-	-	VM	193.00	-				
RW01R (AER)	351159.97N/0805702.92W	N	-	-	-	-				
1260 MSL		-	-	VA	355.96	-	AT/ABOVE 1260		CG 500 FT/NM TO 1260	
		-	-	VM	323.00	-				
RW01L (AER)	351202.23N/0805755.07W	N	-	-	-	-				
1260 MSL		-	-	VA	355.96	-	AT/ABOVE 1260		CG 500 FT/NM TO 1400	
		-	-	VM	308.00	-				
RW36R (AER)	351203.44N/0805602.82W	N	-	-	-	-				
1260 MSL		-	-	VA	355.97	-	AT/ABOVE 1260		CG 500 FT/NM TO 1260	

QUALITY
20
CHECKED

<u>DP NAME</u>		<u>NUMBER</u>		<u>DP COMPUTER CODE</u>		<u>SUPERSEDED NUMBER</u>		<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
ESTRR		SEVEN		ESTRR7.ESTRR		SIX		05/14/2026	9 JUL 2026
<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>
		-	-	VM	018.00	-			
GINNN	350233.33N/0812807.08W	Y	-	IF	-	-			
ESTRR	350003.71N/0813534.71W	Y	FB	TF	247.92	6.61			
ESTRR	350003.71N/0813534.71W	Y	-	IF	-	-			ESTRR7.IPTAY
DEBIE	345549.06N/0814832.06W	Y	FB	TF	248.36	11.46			
IPTAY	342056.57N/0825023.07W	Y	FB	TF	235.99	61.78			

