

**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SUPERSEDED NUMBER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	EIGHT	ESTRR8.ESTRR	SEVEN	07/09/2026	

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	☐	☐	☒	☐	☒

DP ROUTE DESCRIPTION:

CLT:

TAKEOFF RWY 1L: CLIMB ON HEADING 002.96 TO 1260, THEN ON HEADING 315.00 FOR VECTORS TO GINNN THENCE...
TAKEOFF RWY 1R: CLIMB ON HEADING 002.96 TO 1260, THEN ON HEADING 330.00 FOR VECTORS TO GINNN, THENCE...
TAKEOFF RWY 18: CLIMB ON HEADING 182.97 TO 1260, FOR VECTORS TO GINNN, THENCE...
TAKEOFF RWY 19L: CLIMB ON HEADING 182.96 TO 1260, FOR VECTORS TO GINNN, THENCE...
TAKEOFF RWY 19R: CLIMB ON HEADING 182.96 TO 1260, THEN ON HEADING 200.00 FOR VECTORS TO GINNN, THENCE...
TAKEOFF RWY 36: CLIMB ON HEADING 002.97 TO 1260, THEN ON HEADING 025.00 FOR 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 FOR VECTORS TO GINNN, THENCE...
TAKEOFF RWY 20: CLIMBING LEFT TURN HEADING 150.00 TO 2400 FOR VECTORS TO GINNN, THENCE...

AKH:

TAKEOFF RWY 3: CLIMB ON HEADING 049.34 TO 2700 BEFORE TURNING LEFT FOR VECTORS TO GINNN, THENCE...
TAKEOFF RWY 21: CLIMB ON HEADING 214.33 TO 1600 BEFORE PROCEEDING NORTH FOR VECTORS TO GINNN, THENCE....

IPJ:

TAKEOFF RWY 5: CLIMB ON HEADING 063.15 TO 2000 BEFORE PROCEEDING ON COURSE FOR VECTORS TO GINNN, THENCE...
TAKEOFF RWY 23: CLIMB ON HEADING 243.16 TO 2800 BEFORE TURNING LEFT FOR VECTORS TO GINNN, THENCE...

RUQ:

TAKEOFF RWY 2: CLIMB ON ASSIGNED HEADING FOR VECTORS TO GINNN, THENCE...
TAKEOFF RWY 20: CLIMB ON HEADING 201.99 TO 1700 BEFORE TURNING RIGHT FOR VECTORS TO GINNN, THENCE...

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

DEPARTING EQY, LKR, VUJ, UZA: CLIMB ON ASSIGNED HEADING FOR VECTORS TO GINN, 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	ESTRR8.IPTAY	ESTRR	DEBIE	TRACK 255.36	11.46	7600	2700	
		DEBIE	IPTAY	TRACK 242.99	61.78	FL180	2900	

QUALITY
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CHECKED

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 1R, 18, 19L, 19R, 36: 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: STANDARD.
RWY 23: 300-1 1/8 OR STANDARD WITH MINIMUM CLIMB OF 308 FT/NM TO 1200.

LKR:
RWY 6: 300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 268 FT/NM TO 700.
RWY 24: 300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 275 FT/NM TO 700.

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 203 FT/NM TO 1300, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT/NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1300 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 (37-001067) 352145.00N/0810918.00W.



JQF:
RWY 20: 1950 FT MSL TOWER (37-001412) 351715.00N/0804144.00W.

AKH:
RWY 3, 21: 2754 FT MSL TWR (37-001173) 352049.00N/0811014.00W (CLIMB-TO ALTITUDE).

IPJ:
RWY 5: 2340 FT MSL TWR (37-001120) 352426.51N/0810746.67W (CLIMB-TO ALTITUDE).
RWY 23: 1052 FT MSL TREE 352821.00N/0811103.00W (CLIMB GRADIENT), (CLIMB GRADIENT TERMINATION ALTITUDE), (CEILING), 1052 FT MSL TREE 352818.00N/0811109.00W (VISIBILITY), 2719 FT MSL TWR (37-000949) 352151.00N/0811112.00W (CLIMB-TO ALTITUDE).

LKR:
RWY 6: 641 FT MSL TREE 344348.00N/0804945.00W (CLIMB GRADIENT)(CLIMB GRADIENT TERMINATION ALTITUDE), 654 FT MSL TREE 344351.00N/0804936.00W (CEILING), 654 FT MSL TREE 344351.00N/0804933.00W (VISIBILITY).
RWY 24: 618 FT MSL TREE 344257.00N/0805248.00W (CLIMB GRADIENT)(CLIMB GRADIENT TERMINATION ALTITUDE), 622 MSL TREE 344254.00N/0805300.00W (CEILING)(VISIBILITY).

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 GRADIENT TERMINATION ALTITUDE), 820 FT MSL TREE (37-116182) 352627.52N/0800810.70W (CEILING), 790 FT MSL TREE (37-114938) 352637.40N/0800804.59N (VISIBILITY).

RUQ:
RWY 20: 1121 FT MSL TOWER (37-000253) 353613.00N/0803234.12W.

MSA:
CLT, 3800
JQF, 3800
AKH, 3800
EQY, 3100
IPJ, 4200
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:

AIRPORT ID	CITY	STATE
CLT	CHARLOTTE	NC
JQF	CONCORD	NC
AKH	GASTONIA	NC
EQY	MONROE	NC
IPJ	LINCOLNTON	NC

QUALITY
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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	EIGHT	ESTRR8.ESTRR	SEVEN	07/09/2026	
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.
 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:

100 FT VEGETATION USED PER FPT.
 CLT RWY 1L CONTROLLING OBSTACLE REQUIRES A MINIMUM CLIMB OF 210 FT/NM TO 3400. MINIMUM CLIMB OF 500 FT/NM TO 1400 MITIGATES OBSTACLE.
 JQF RWY 20 CLIMB GRADIENT ROUNDED TO 320 FT PER NM FOR PUBLICATION (COMPUTED VALUE 317 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.

FLIGHT INSPECTED BY

MEMO VERBIAGE HERE

SIGNATURE

Digitally signed by
ROBERT G HAMILTON
 Jul 15, 2026

OFFICE

DATE

DEVELOPED BY

JAMIE KUNKLER

SIGNATURE

Digitally signed by
ROBERT G HAMILTON
 Jul 15, 2026

OFFICE

AJV-A432

DATE

03/06/2026

APPROVED BY

CASIMIR TABAKA

SIGNATURE

Digitally signed by
ROBERT G HAMILTON
 Jul 15, 2026

OFFICE

AJV-A432

DATE

TITLE

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:

- CLT RWY NUMBERS CHANGED FROM RWY 18L/36R TO RWY 18/36. - RUNWAY RENUMBERING.
- DP ROUTE DESCRIPTION: CHANGED ALL REFERENCES FROM "OR AS ASSIGNED BY ATC FOR RADAR VECTORS" TO "FOR VECTORS" – IAW 8260.46K.
- TAKEOFF MINIMUMS: IPJ RWY 23 CHANGED FROM "STANDARD" TO "300-1 1/8 OR STANDARD WITH MINIMUM CLIMB OF 308 FT/NM TO 1200" - EVALUATION OF NEW RNAV SIDS THAT ARE PART OF KCLT REDESIGN, INCREASING MINIMA TO REMAIN CONGRUENT.

QUALITY
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CHECKED

4. TAKEOFF MINIMUMS: LKR RWY 6, 24 CHANGED FROM "STANDARD" TO "RWY 6: 300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 268 FT/NM TO 700. RWY 24: 300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 275 FT/NM TO 700" - EVALUATION OF NEW RNAV SIDS THAT ARE PART OF KCLT REDESIGN, INCREASING MINIMA TO REMAIN CONGRUENT.

5. TAKEOFF MINS: RUQ CHANGED FROM "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" TO "400-2 3/4 OR STANDARD WITH MINIMUM CLIMB OF 203 FT/NM TO 1300, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT/NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1300 FT PRIOR TO DER" - NEW EVALUATION ON OTHER RADAR VECTOR SIDS THAT ARE PART OF KCLT REDESIGN, INCREASING MINIMA TO REMAIN CONGRUENT.

6. CONTROLLING OBSTACLES: ADDED OAS NUMBERS TO THE CONTROLLING OBSTACLES AT CLT, JQF AND RUQ - 8260.46K COMPLIANCE.

7. CONTROLLING OBSTACLES: ADDED AKH: RWY 3, 21: 2754 FT MSL TWR (37-001173) 352049.00N/0811014.00W (CLIMB-TO ALTITUDE) - EVALUATION OF NEW RNAV SIDS THAT ARE PART OF KCLT REDESIGN, INCREASING MINIMA TO REMAIN CONGRUENT.

8. CONTROLLING OBSTACLES: ADDED IPJ: RWY 5: 2340 FT MSL TWR (37-001120) 352426.51N/0810746.67W (CLIMB-TO ALTITUDE), RWY 23: 1052 MSL TREE 352821.00N/0811103.00W (CLIMB GRADIENT), (CLIMB GRADIENT TERMINATION ALTITUDE), (CEILING), 1052 MSL TREE 352818.00N/0811109.00W (VISIBILITY), 2719 FT MSL TWR (37-000949) 352151.00N/0811112.00W (CLIMB-TO ALTITUDE) - EVALUATION OF NEW RNAV SIDS THAT ARE PART OF KCLT REDESIGN, INCREASING MINIMA TO REMAIN CONGRUENT.

9. CONTROLLING OBSTACLES: ADDED LKR: RWY 6: 641 FT MSL TREE 344348.00N/0804945.00W (CLIMB GRADIENT)(CLIMB GRADIENT TERMINATION ALTITUDE), 654 FT MSL TREE 344351.00N/0804936.00W (CEILING), 654 FT MSL TREE 344351.00N/0804933.00W (VISIBILITY). RWY 24: 618 FT MSL TREE 344257.00N/0805248.00W (CLIMB GRADIENT)(CLIMB GRADIENT TERMINATION ALTITUDE), 622 MSL TREE 344254.00N/0805300.00W (CEILING)(VISIBILITY) - EVALUATION OF NEW RNAV SIDS THAT ARE PART OF KCLT REDESIGN, INCREASING MINIMA TO REMAIN CONGRUENT.

10. CONTROLLING OBSTACLES: UPDATED VUJ VISIBILITY OBSTACLE FROM "790 FT MSL (37-114938) 352637.40N/0800804.59N (VISIBILITY)" TO "790 FT MSL TREE (37-114938) 352637.40N/0800804.59N (VISIBILITY)" - IAW 8260.46K.

11. MSA: CHANGED IPJ FROM "3800" TO "4200" - EVALUATION OF NEW RNAV SIDS THAT ARE PART OF KCLT REDESIGN, INCREASING MINIMA TO REMAIN CONGRUENT.

12. REMARKS: ADDED 100 FT VEGETATION USED PER FPT - INFORMATION FOR FUTURE SPECIALISTS.

13. REMARKS: ADDED CLT RWY 1L CONTROLLING OBSTACLE REQUIRES A MINIMUM CLIMB OF 210 FT/NM TO 3400. MINIMUM CLIMB OF 500 FT/NM TO 1400 MITIGATES OBSTACLE - INFORMATION FOR FUTURE SPECIALISTS.

14. REMARKS: REMOVED: RUQ RWY 20 CLIMB GRADIENT ROUNDED TO 205 FT/NM FOR PUBLICATION (COMPUTED VALUE 202 FT/NM) - NO LONGER APPLICABLE.

07/09/26: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 04/30/26.

1. DP ROUTE DESCRIPTION DEPARTING EQY, LKR, VUJ, UZA LACHN CHANGED TO GINNN.

07/15/26: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 04/30/26.

1. DP ROUTE DESCRIPTION DEPARTING EQY, LKR, VUJ, UZA REMOVED "THEN ON DEPICTED ROUTE TO GINNN".



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

DP NAME				NUMBER		DP COMPUTER CODE		SUPERSEDED NUMBER		DATED		ACTUAL EFFECTIVE DATE	
ESTRR				EIGHT		ESTRR8.ESTRR		SEVEN		07/09/2026			
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS				
RW01L (AER)	51202.23N/0805755.07W	N	-	-	-	-							
1260 MSL		-	-	VA	355.96		AT/ABOVE 1260		CG 500 FT/NM TO 1400				
		-	-	VM	308.00	-							
RW01R (AER)	351159.97N/0805702.92W	N	-	-	-	-							
1260 MSL				VA	355.96		AT/ABOVE 1260		CG 500 FT/NM TO 1260				
		-	-	VM	323.00	-							
RW18 (AER)	351329.04N/0805610.17W	N	-	-	-	-							
1260 MSL		-	-	VA	175.97	-	AT/ABOVE 1260		CG 500 FT/NM TO 1260				
		-	-	VM	175.97								
RW19L (AER)	351338.63N/0805711.41W	N	-	-	-	-							
1260 MSL		-	-	VA	175.96	-	AT/ABOVE 1260		CG 500 FT/NM TO 1260				
		-	-	VM	175.96	-							
RW19R (AER)	351331.02N/0805802.71W	N	-	-	-	-							
1260 MSL		-	-	VA	175.96	-	AT/ABOVE 1260		CG 500 FT/NM TO 1260				
		-	-	VM	193.00	-							
RW36 (AER)	351203.44N/0805602.82W	N	-	-	-	-							
1260 MSL		-	-	VA	355.97	-	AT/ABOVE 1260		CG 500 FT/NM TO 1260				

QUALITY

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QUALITY
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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		EIGHT		ESTRR8.ESTRR		SEVEN		07/09/2026	
<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	-	-			ESTRR8.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			

