

**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SUPERSEDED NUMBER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	SIX	ESTRR6.ESTRR	FIVE	03/21/2024	14 MAY 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 18C:** 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 36C:** 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	ESTRR6.IPTAY	ESTRR	DEBIE	TRACK 255.36	11.46	7600	2700	
		DEBIE	IPTAY	TRACK 242.99	61.78	FL180	2900	



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ESTRR	SIX	ESTRR6.ESTRR	FIVE	03/21/2024	14 MAY 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 18C, 18L, 19R, 36C, 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.

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 7W/2000 (P), 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.

AIRPORT ID	CITY	STATE
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.

FLIGHT INSPECTED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP
(AJF-17) MEMO DATED 07/07/2021, SUBJECT:GUIDANCE
FOR PROCEDURAL CHANGES REQUIRING FLIGHT
INSPECTION/VALIDATION.

SIGNATURE

Digitally signed by
CASIMIR L TABAKA
Jan 26, 2026

OFFICE

DATE

DEVELOPED BY

JACOB CLARK
JACOB H CLARK
Dec 02, 2025

SIGNATURE

OFFICE

DATE
11/14/2025

APPROVED BY

CASIMIR TABAKA

SIGNATURE

Digitally signed by
CASIMIR L TABAKA
Jan 26, 2026

OFFICE

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:

1. CLT RWYS 18R/36L CHANGED TO RWYS 19R/1L. - RUNWAY RENUMBERING.
2. ALL AIRPORT NAMES AND ICAO IDENTIFIERS CHANGED TO AIRPORT THREE-LETTER IDENTIFIERS - AFS DIRECTED.
3. DP ROUTE DESCRIPTION: CHANGED "ON RADAR VECTORS" TO "FOR RADAR VECTORS" - IAW 8260.46K 2-1-5.K
4. DP ROUTE DESCRIPTION: CHANGED "EXPECT CLEARANCE TO FILED ALTITUDE WITHIN 10 MINUTES AFTER DEPARTURE" TO "EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE" - AFS DIRECTED.
5. PROCEDURAL DATA NOTES: NOTE CHANGED FROM "FOR TURBO JETS ONLY" TO "TURBOJET ONLY" - ATC/FPT REQUEST.
6. TAKEOFF MINIMUMS: CHANGED ALL REFERENCE OF "FT PER NM" TO "FT/NM" - IAW 8260.46K 2-1-3.D(2)(A).
7. MSA: UPDATED FORMATTING TO CURRENT CRITERIA - IAW 8260.46K 3-1-2.C.
8. AIRPORTS SERVED: UPDATED AIRPORT ID FORMATTING - IAW 8260.46K 2-1-1.J.
9. COMMUNICATIONS: ADDED CPDLC TO CLT - CURRENTLY CHARTED.
10. REMARKS: AAUP STATEMENT MOVED FROM ADDITIONAL FLIGHT DATA TO REMARKS - IAW 8260.46K APPENDIX E, SECTION 1, 2.Q.(3).

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

DP NAME				NUMBER		DP COMPUTER CODE		SUPERSEDED NUMBER		DATED		ACTUAL EFFECTIVE DATE	
ESTRR				SIX		ESTRR6.ESTRR		FIVE		03/21/2024		14 MAY 2026	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS				
RW18C (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	-							
RW36C (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				



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ESTRR		SIX		ESTRR6.ESTRR		FIVE		03/21/2024	14 MAY 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	-	-			ESTRR6.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			