

**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SUPERSEDED NUMBER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	FIVE	ESTRR5.ESTRR	FOUR	01/03/2019	

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**DP ROUTE DESCRIPTION:**

**CHARLOTTE/DOUGLAS INTL (KCLT):**

- TAKEOFF RWY 18C:** CLIMB ON HEADING 182.96 TO 1260, THEN ON HEADING 182.96 OR AS ASSIGNED BY ATC ON 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 ON RADAR VECTORS TO GINNN, THENCE...
- TAKEOFF RWY 18R:** CLIMB ON HEADING 182.96 TO 1260, THEN ON HEADING 200.00 OR AS ASSIGNED BY ATC ON 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 ON RADAR VECTORS TO GINNN, THENCE...
- TAKEOFF RWY 36L:** CLIMB ON HEADING 002.96 TO 1260, THEN ON HEADING 315.00 OR AS ASSIGNED BY ATC ON 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 ON RADAR VECTORS TO GINNN, THENCE...

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

**CONCORD-PADGETT RGNL (KJQF):**

- 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...

**GASTONIA MUNI (KAKH):**

- 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...

**LINCOLN-TON-LINCOLN COUNTY RGNL (KIPJ):**

- 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....


**MID-CAROLINA RGNL (KRUQ):**

- 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...

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

**DEPARTING CHARLOTTE-MONROE EXECUTIVE (KEQY), LANCASTER COUNTY-MC WHIRTER FIELD (KLKR), STANLY COUNTY (KVUJ), AND ROCK HILL/YORK CO/BRYANT FIELD (KUZA):** CLIMB ON HEADING ASSIGNED BY ATC, ON RADAR VECTORS TO GINNN, THEN ON TRACK 254.92 TO ESTRR, THEN ON IPTAY TRANSITION. MAINTAIN 3000, EXPECT FILED ALTITUDE WITHIN 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	ESTRR5.IPTAY	ESTRR	DEBIE	TRACK 255.36	11.46	7600	2400	
		DEBIE	IPTAY	TRACK 242.99	61.78	FL180	2200	

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ESTRR	FIVE	ESTRR5.ESTRR	FOUR	01/03/2019	

**PROCEDURAL DATA NOTES:**

**NOTE:** FOR TURBO JETS 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:** CHARLOTTE/DOUGLAS INTL 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.

**PBN REQUIREMENTS NOTES:**

RNAV 1 - DME/DME/IRU OR GPS.

**EQUIPMENT REQUIREMENT NOTES:**

RADAR REQUIRED.

**TAKEOFF MINIMUMS:**

**CHARLOTTE/DOUGLAS INTL (KCLT):**

**RWY 18C, 18L, 18R, 36C, 36R:** STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1260.

**RWY 36L:** STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1400.

**CONCORD-PADGETT RGNL (KJQF):**

**RWY 2:** STANDARD.

**RWY 20:** STANDARD WITH MINIMUM CLIMB OF 320 FT PER NM TO 2400.

**GASTONIA MUNI (KAKH):**

**RWY 3, 21:** STANDARD.

**CHARLOTTE-MONROE EXECUTIVE (KEQY):**

**RWY 5, 23:** STANDARD.

**LINCOLN-TON-LINCOLN COUNTY RGNL (KIPJ):**

**RWY 5, 23:** STANDARD.

**LANCASTER COUNTY-MC WHIRTER FIELD (KLKR):**

**RWY 6, 24:** STANDARD.

**STANLY COUNTY (KVUJ):**

**RWY 4L, 22R:** NA - ENVIRONMENTAL.

**RWY 22L:** STANDARD

**RWY 4R:** 300-1 3/4 OR STANDARD WITH MINIMUM CLIMB OF 315 FT PER NM TO 1000.

**MID-CAROLINA RGNL (KRUQ):**

**RWY 2:** STANDARD.

**RWY 20:** 400-2 3/4 OR STANDARD WITH MINIMUM CLIMB OF 205 FT PER NM TO 1300, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1200 FT PRIOR TO DER.

**ROCK HILL/YORK CO/BRYANT FIELD (KUZA):**

**RWY 2, 20:** STANDARD.

**TAKEOFF OBSTACLES NOTES:**

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

**CONTROLLING OBSTACLES:**

**CHARLOTTE/DOUGLAS INTL (KCTL):**

**RWY 36L:** 2748 FT MSL TOWER 352145.00N/0810918.00W.

**CONCORD-PADGETT RGNL (KJQF):**



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**RWY 20:** 1950 FT MSL TOWER 351715.00N/0804144.00W.

**STANLY COUNTY (KVUJ):**

**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).

**MID-CAROLINA RGNL (KRUQ):**

**RWY 20:** 1121 FT MSL TOWER 353613.00N/0803234.12W.

**MSA:**

KCLT MSA FROM KCLT 3800.  
 KJQF MSA FROM KJQF 3800.  
 KAKH MSA FROM KAKH 3800.  
 KEQY MSA FROM KEQY 3100.  
 KIPJ MSA FROM KIPJ 3800.  
 KLKR MSA FROM KLKR 2300.  
 KVUJ MSA FROM KVUJ 3100.  
 KRUQ MSA FROM KRUQ 3400.  
 KUZA MSA FROM KUZA 3800.

**LOST COMMUNICATIONS PROCEDURES:**

**ADDITIONAL FLIGHT DATA:**

AIRPORT MV: KCLT 7W/2000 (P), KJQF 6W/1995, KAKH 6W/2000, KEQY 6W/1990, KIPJ 6W/1995, KLKR 7W/2000, KVUJ 6W/1985, KRUQ 6W/1985, KUZA 5W/1990.

DME/DME ASSESSMENT: SAT (RNP 2.0)

**CHARLOTTE/DOUGLAS INTL - CHART:** TOP ALTITUDE 8000

**CONCORD-PADGETT RGNL - CHART:** TOP ALTITUDE 3000.

**GASTONIA MUNI - CHART:** TOP ALTITUDE 3000.

**CHARLOTTE-MONROE EXECUTIVE - CHART:** TOP ALTITUDE 3000.

**LINCOLN-TON-LINCOLN COUNTY RGNL - CHART:** TOP ALTITUDE 3000.

**LANCASTER COUNTY-MC WHIRTER FIELD - CHART:** TOP ALTITUDE 3000.

**STANLY COUNTY - CHART:** TOP ALTITUDE 3000.

**MID-CAROLINA RGNL - CHART:** TOP ALTITUDE 3000.

**ROCK HILL/YORK CO/BRYANT FIELD - CHART:** TOP ALTITUDE 3000.

**CHART NOTE: (CHARLOTTE/DOUGLAS INTL ONLY) SEE ADDITIONAL REQUIREMENTS ON AAUP.**

**AIRPORTS SERVED:**

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KCLT	CHARLOTTE	NC
KJQF	CONCORD	NC
KAKH	GASTONIA	NC
KEQY	MONROE	NC
KIPJ	LINCOLN-TON	NC
KLKR	LANCASTER	SC

QUALITY  
24  
CHECKED

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ESTRR	FIVE	ESTRR5.ESTRR	FOUR	01/03/2019	
KVUJ		ALBEMARLE			NC
KRUQ		SALISBURY			NC
KUZA		ROCK HILL			SC

**COMMUNICATIONS:**

**CHARLOTTE/DOUGLAS INTL:** CHART: ATIS, CLNC DEL, GND CON, TOWER.  
**CONCORD-PADGETT RGNL:** CHART: ATIS, CLNC DEL, GND CON, TOWER, UNICOM.  
**GASTONIA MUNI:** CHART: ASOS, CLNC DEL, UNICOM.  
**CHARLOTTE-MONROE EXECUTIVE:** CHART: ASOS, CLNC DEL, UNICOM.  
**LINCOLN-TON-LINCOLN COUNTY RGNL:** CHART: AWOS, CLNC DEL (GCO), UNICOM.  
**LANCASTER COUNTY-MC WHIRTER FIELD:** CHART: AWOS, GCO, UNICOM.  
**STANLY COUNTY:** CHART: ATIS, CLNC DEL, GND CON, TOWER.  
**MID-CAROLINA RGNL:** CHART: AWOS, CLNC DEL, UNICOM.  
**ROCK HILL/YORK CO/BRYANT FIELD:** CHART: ASOS, CLNC DEL, UNICOM

**FIXES AND/OR NAVAIDS:**

BGRED, CHOPZ

**REMARKS:**

1. CONCORD-PADGETT RGNL RWY 20 CLIMB GRADIENT ROUNDED TO 320 FT PER NM FOR PUBLICATION (COMPUTED VALUE 317 FT PER NM).
2. MID-CAROLINA RGNL COUNTY RWY 20 CLIMB GRADIENT ROUNDED TO 205 FT PER NM FOR PUBLICATION (COMPUTED VALUE 202 FT PER NM).
3. ABBREVIATED AMENDMENT.

**FLIGHT INSPECTED BY**

**OFFICE**                      **DATE**

**DEVELOPED BY** *Digitally signed by*

ANA VEGA                      **ANA Y VEGA**  
Apr 18, 2023

**OFFICE**                      **DATE**  
AJV-A412                      01/06/2023

**APPROVED BY** *Digitally signed by*

JULIE MORGAN                      **MARK D ADAMS**  
May 12, 2023

**OFFICE**                      **DATE**                      **TITLE**  
AJV-A410                                                                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. REMOVED ALL REFERENCES TO KCLT RWY 5/23 - INCORPORATE NOTAM CLT 05/427.
2. TAKEOFF MINIMUMS: STANLY COUNTY (KVUJ) AMENDED RWY 4R FROM "300 1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 276 FT PER NM TO 1000" TO "300-1 3/4 OR STANDARD WITH MINIMUM CLIMB OF 315 FT PER NM TO 1000" - INCORPORATE FDC 3/0577.
3. TAKEOFF MINIMUMS: STANLY COUNTY (KVUJ) RWY 4L, 22R UPDATED TO READ "NA - ENVIRONMENTAL" - PER AIRNAV USED AS ASSAULT STRIP BY MILITARY, IT IS NOT USED FOR IFR OPERATIONS.
4. CONTROLLING OBSTACLES: STANLY COUNTY (KVUJ) RWY 4R UPDATED FROM "837 FT MSL TREE 352627.34N/0800808.17W" TO "732 FT MSL TREE (37-111225) 352557.53N/0800829.12W (CLIMB GRADIENT) AND ADDED "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)."AND CHARLOTTE/DOUGLAS INTL (KCLT) UPDATED RWY 36L TO "2748 FT MSL TOWER 352145.00N/0810918.00W - NEW PENETRATING OBSTACLES.



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5. CONTROLLING OBSTACLES: REMOVED ALL "ROUTE DEVELOPMENT" OBSTACLES - ROUTE ISN'T BASED ON OBSTACLES.
6. COMBINED NOTES "RNAV 1" AND "DME/DME/IRU OR GPS REQUIRED" TO READ "RNAV 1 - DME/DME/IRU OR GPS REQUIRED" AND MOVED TO PBN REQUIREMENTS NOTES - IAW 8260.46J 2-1-1F (6) AND APPENDIX E, SECTION 1 PARA 5 MEMO.
7. PROCEDURAL DATA NOTES: MOVED RADAR REQUIRED NOTE TO EQUIPMENT REQUIREMENT NOTES - IAW 8260.46J 2-1-1 F (5).
8. PROCEDURAL DATA NOTES: REPLACED "TURBOJETS ONLY" WITH "TURBO JETS ONLY" - IAW 8260.46J APP E, SEC 1, PARA 2G.
9. ADDITIONAL FLIGHT DATA: REMOVED "REFERENCE PILOT NAVIGATION AREA" - NO LONGER REQUIRED PER 8260.46J.
10. COMMUNICATIONS: REMOVED DEPARTURE CONTROL (DEP CON) - CHARTING DEPARTURE CONTROL FREQUENCY OCCURS AUTOMATICALLY PER IAW 8260.46J APPENDIX E.
11. AIRPORTS SERVED: UPDATED TO "AIRPORT ID" ONLY - IAW 8260.46J.
12. CHANGED DP ROUTE DESCRIPTION FOR ALL RUNWAYS FROM "CLIMB HEADING" TO "CLIMB ON HEADING" - IAW 8260.46J APPENDIX E.
13. ADDED "APT. ID" FOLLOWING THE AIRPORT NAME ON DP ROUTE DESCRIPTION, TAKEOFF MINIMUMS AND CONTROLLING OBSTACLES - IAW 8260.46J.
14. MSA ADDED "KCLT MSA FROM KCLT 3800; KJQF MSA FROM KJQF 3800; KAKH MSA FROM KAKH 3800; KEQY MSA FROM KEQY 3100; KIPJ MSA FROM KIPJ 3800; KLKR MSA FROM KLKR 2300; KVUJ MSA FROM KVUJ 3100; KRUQ MSA FROM KRUQ 3400; KUZA MSA FROM KUZA 3800" - IAW 8260.46J APP E, SEC 1, PARA 2K AW 8260.46J, APPENDIX E (2) (K).
15. ADDITIONAL FLIGHT DATA: ADDED " AIRPORT MV: KCLT (P) 7W/2000, KJQF 6W/1995, KAKH 6W/2000, KEQY 6W/1990, KIPJ 6W/1995, KLKR 7W/2000, KVUJ 6W/1985, KRUQ 6W/1985, KUZA 5W/1990" - CRITERIA CLARIFICATION MEMO (7/15/2022) TO MEMO 283 (6/2/2022).
16. TRANSITION ROUTES: ADDED MOCA VALUES - NOT INCLUDED IN THE CURRENT PROCEDURE, IAW 8260.46J SECTION 2, PARA 2(8).
17. COMMUNICATIONS: ADDED "CHART:" TO THE FREQUENCIES FOR EACH AIRPORT - IAW 8260.46J APP. E, SEC 1, PARA 2O.
18. REMARKS: REMOVED "LETTER OF APPROVAL FOR VUJ, RUQ, EQY, LKR AND RWY 2 AT JQF AIRPORTS NOT LOCATED WITHIN EXTENDED PNA REQUIRED AND ON FILE APPROVED BY AFS-400 5-4-16" - NO LONGER REQUIRED.
19. COMMUNICATIONS: STANLY COUNTY (KVUJ) REMOVED "UNICOM" - PER NFDD 42 REMOVED FROM ARP.
20. DP ROUTE DESCRIPTION: REPLACE ALL INSTANCES OF "EXPECT RADAR" TO "ON RADAR" - IAW 8260.46J 2-1-1.G (2).
21. DP ROUTE DESCRIPTION: MID-CAROLINA RGNL (KRUQ) ADDED "TAKEOFF RWY 2: CLIMB ON HEADING ASSIGNED BY ATC, THENCE..." - FORM UPDATED.



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

<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	FIVE	ESTRR5.ESTRR	FOUR	01/03/2019					
<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>
RW18C (AER)	351338.63N/0805711.41W	N	-	-	-	-			
1260 MSL		-	-	VA	175.96	-			CG 500 FT/NM TO 1260
		-	-	VM	175.96	-			
GINNN	350233.33N/0812807.08W	Y	FB	DF	-	-			
RW18L (AER)	351329.05N/0805610.17W	N	-	-	-	-			
1260 MSL		-	-	VA	175.97	-			CG 500 FT/NM TO 1260
		-	-	VM	175.97	-			
GINNN	350233.33N/0812807.08W	Y	FB	DF	-	-			
RW18R (AER)	351331.02N/0805802.71W	N	-	-	-	-			
1260 MSL		-	-	VA	175.96	-			CG 500 FT/NM TO 1260
		-	-	VM	193.00	-			
GINNN	350233.33N/0812807.08W	Y	FB	DF	-	-			
RW36C (AER)	351159.97N/0805702.92W	N	-	-	-	-			
1260 MSL		-	-	VA	355.96	-			CG 500 FT/NM TO 1260
		-	-	VM	323.00	-			
GINNN	350233.33N/0812807.08W	Y	FB	DF	-	-			
RW36L (AER)	351202.23N/0805755.07W	N	-	-	-	-			
1260 MSL		-	-	VA	355.96	-			CG 500 FT/NM TO 1400



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ESTRR		FIVE	ESTRR5.ESTRR	FOUR	01/03/2019				
<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	308.00	-			
GINNN	350233.33N/0812807.08W	Y	FB	DF	-	-			
RW36R (AER)	351203.45N/0805602.82W	N	-	-	-	-			
1260 MSL		-	-	VA	355.97	-			CG 500 FT/NM TO 1260
		-	-	VM	018.00	-			
GINNN	350233.33N/0812807.08W	Y	FB	DF	-	-			
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	-	-			ESTRR5.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			

