

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)

PREVIOUSLY PUBLISHED IN
NFDD 205

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.
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DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
ESTRR	FOUR	ESTRR4.ESTRR	THREE	8/17/2017	03 JAN 2019
TYPE:	OBSTACLE	COPTER	SID	SPECIAL	RNAV
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DP ROUTE DESCRIPTION:

CHARLOTTE/DOUGLAS INTL

TAKEOFF RWY 5: CLIMB HEADING 055.47 TO 1260, THEN ON HEADING 055.00 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO GINNN, THENCE...
TAKEOFF RWY 18C: CLIMB HEADING 182.96 TO 1260, THEN ON HEADING 182.96 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO GINNN, THENCE...
TAKEOFF RWY 18L: CLIMB HEADING 182.97 TO 1260, THEN ON HEADING 182.97 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO GINNN, THENCE...
TAKEOFF RWY 18R: CLIMB HEADING 182.96 TO 1260, THEN ON HEADING 200.00 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO GINNN, THENCE...
TAKEOFF RWY 23: CLIMB HEADING 235.48 TO 1260, THEN ON HEADING 235.00 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO GINNN, THENCE...
TAKEOFF RWY 36C: CLIMB HEADING 002.96 TO 1260, THEN ON HEADING 330.00 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO GINNN, THENCE...
TAKEOFF RWY 36L: CLIMB HEADING 002.96 TO 1260, THEN ON HEADING 315.00 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO GINNN, THENCE...
TAKEOFF RWY 36R: CLIMB HEADING 002.97 TO 1260, THEN ON HEADING 025.00 OR AS ASSIGNED BY ATC, EXPECT 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

TAKEOFF RWY 2: CLIMB HEADING 016.46 TO 2200, THENCE...
TAKEOFF RWY 20: CLIMBING LEFT TURN HEADING 150.00 TO 2400, THENCE...

... ON HEADING ASSIGNED BY ATC, EXPECT 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 GASTONIA MUNI, CHARLOTTE-MONROE EXECUTIVE, LINCOLNTON-LINCOLN COUNTY RGNL, LANCASTER COUNTY-MC WHIRTER FIELD, STANLY COUNTY, MID-CAROLINA RGNL, AND ROCK HILL/YORK CO/BRYANT FIELD: CLIMB ON HEADING ASSIGNED BY ATC, EXPECT 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.

GASTONIA MUNI

TAKEOFF RWY 3: CLIMB HEADING 049.34 TO 2700 BEFORE TURNING LEFT.
TAKEOFF RWY 21: CLIMB HEADING 214.33 TO 1600 BEFORE PROCEEDING NORTH.

LINCOLNTON-LINCOLN COUNTY RGNL

TAKEOFF RWY 5: CLIMB HEADING 063.15 TO 2000 BEFORE PROCEEDING ON COURSE.
TAKEOFF RWY 23: CLIMB HEADING 243.16 TO 2800 BEFORE TURNING LEFT.

MID-CAROLINA RGNL

TAKEOFF RWY 20: CLIMB HEADING 201.99 TO 1700 BEFORE TURNING RIGHT.



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TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

TRANSITION NAME	TRANSITION COMPUTER CODE	FROM FIX/NAVAID	TO FIX/NAVAID	COURSE	DISTANCE	MEA	MOCA	CROSSING ALTITUDE/FIXES
IPTAY	ESTRR4.IPTAY	ESTRR	DEBIE	TRACK 255.36	11.46	7600	2400	
		DEBIE	IPTAY	TRACK 242.99	61.78	FL180		

PROCEDURAL DATA NOTES:

- NOTE:** FOR TURBOJETS ONLY.
NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: RNAV 1.
NOTE: RADAR REQUIRED.
NOTE: IF UNABLE TO ACCEPT CLIMB RATES, ADVISE ATC ON INITIAL CONTACT.
NOTE: CHARLOTTE/DOUGLASS 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.

TAKEOFF MINIMUMS:

CHARLOTTE/DOUGLAS INTL
RWY 18C, 18L, 18R, 23, 36C, 36R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1260.
RWY 5, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1300.
RWY 36L, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1400.

CONCORD-PADGETT RGNL
RWY 2, STANDARD.
RWY 20, STANDARD WITH MINIMUM CLIMB OF 320 FT PER NM TO 2400.

GASTONIA MUNI
RWY 3, 21, STANDARD.

CHARLOTTE-MONROE EXECUTIVE
RWY 5, 23, STANDARD.

LINCOLN-TON-LINCOLN COUNTY RGNL
RWY 5, 23, STANDARD.

LANCASTER COUNTY-MC WHIRTER FIELD
RWY 6, 24, STANDARD.

STANLY COUNTY
RWY 4L, 22R, NA
RWY 22L, STANDARD
RWY 4R, 300-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 276 FT PER NM TO 1000.

MID-CAROLINA RGNL
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



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CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1200 FT PRIOR TO DER.

ROCK HILL/YORK CO/BRYANT FIELD
RWY 2, 20, STANDARD.

TAKEOFF OBSTACLES NOTES:

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



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CONTROLLING OBSTACLES:

CHARLOTTE/DOUGLAS INTL

RWY 5: 1633 FT MSL BUILDING 351339.00N/0805032.00W (CLIMB TO ALTITUDE).

RWY 36L: 2754 FT MSL TOWER 352049.00N/0811014.00W (CLIMB TO ALTITUDE).

CONCORD-PADGETT RGNL

RWY 2: 2348 FT MSL TOWER 353157.00N/0804746.00W (ROUTE DEVELOPMENT).

RWY 20: 1950 FT MSL TOWER 351715.00N/0804144.00W (CLIMB GRADIENT). 2041 FT MSL TOWER 392504.00N/0763320.00W (ROUTE DEVELOPMENT).

GASTONIA MUNI

RWY 3, 21: 2754 FT MSL TOWER 352049.00N/0811014.00W (ROUTE DEVELOPMENT).

LINCOLNTON-LINCOLN COUNTY RGNL

RWY 5: 2754 FT MSL TOWER 352049.00N/0811014.00W (ROUTE DEVELOPMENT).

RWY 23: 2719 FT MSL TOWER 352151.00N/0811112.00W (ROUTE DEVELOPMENT).

STANLY COUNTY

RWY 4R: 837 FT MSL TREE 352627.34N/0800808.17W (CLIMB GRADIENT).

MID-CAROLINA RGNL

RWY 20: 1121 FT MSL TOWER 353613.00N/0803234.12W (CLIMB GRADIENT). 1848 FT MSL TOWER 353531.99N/0803743.98W (ROUTE DEVELOPMENT).

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KCLT 7W EPOCH YEAR: 2000. 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.

LINCOLNTON-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.

PILOT NAVIGATION AREA:

7 NM ARC CENTERED ON GINNN (IF), CW

FROM: POINT A (BEARING 210 DEGREES TO GINNN)

TO: POINT B (BEARING 300 DEGREES TO GINNN)

MINIMUM CROSSING ALTITUDE AT GINNN - 4000

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



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AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
CHARLOTTE/DOUGLAS INTL (KCLT)	CHARLOTTE	NC
CONCORD-PADGETT RGNL (KJQF)	CONCORD	NC
GASTONIA MUNI (KAKH)	GASTONIA	NC
CHARLOTTE-MONROE EXECUTIVE (KEQY)	MONROE	NC
LINCOLNTON-LINCOLN COUNTY RGNL (KIPJ)	LINCOLNTON	NC
LANCASTER COUNTY-MC WHIRTER FIELD (KLKR)	LANCASTER	SC
STANLY COUNTY (KVUJ)	ALBEMARLE	NC
MID-CAROLINA RGNL (KRUQ)	SALISBURY	NC
ROCK HILL/YORK CO/BRYANT FIELD (KUZA)	ROCK HILL	SC

COMMUNICATIONS:

CHARLOTTE/DOUGLAS INTL: ATIS, CLNC DEL, GND CON, TOWER, DEP CON .
CONCORD-PADGETT RGNL: ATIS, CLNC DEL, GND CON, TOWER, UNICOM, DEP CON
GASTONIA MUNI: ASOS, CLNC DEL, UNICOM, DEP CON.
CHARLOTTE-MONROE EXECUTIVE: ASOS, CLNC DEL, UNICOM, DEP CON.
LINCOLNTON-LINCOLN COUNTY RGNL: AWOS, CLNC DEL (GCO), UNICOM, DEP CON
LANCASTER COUNTY-MC WHIRTER FIELD: AWOS, GCO, UNICOM, DEP CON.
STANLY COUNTY: ATIS, CLNC DEL, GND CON, TOWER, UNICOM, DEP CON.

MID-CAROLINA RGNL: AWOS, CLNC DEL, UNICOM, DEP CON.
ROCK HILL/YORK CO/BRYANT FIELD: ASOS, CLNC DEL, UNICOM, DEP CON.

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 RWY 20 CLIMB GRADIENT ROUNDED TO 205 FT PER NM FOR PUBLICATION (COMPUTED VALUE 202 FT PER NM).
3. ABBREVIATED AMENDMENT.
4. LETTER OF APPROVAL FOR LKR AIRPORT NOT LOCATED WITHIN EXTENDED PNA REQUIRED AND ON FILE APPROVED BY AFS-400 8-3-15.



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FLIGHT INSPECTED BY:

FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, DEC 22, 2017.

OFFICE SYMBOL: DATE:

Digitally signed by

DAVID DANNER

Oct 30, 2018

OFFICE SYMBOL: DATE:

AJV-5421

7/24/2018

DEVELOPED BY:

Digitally signed by

RUSS ROSLEWSKI

RUSSELL ROSLEWSKI

Jul 24, 2018

APPROVED BY:

Digitally signed by

JULIE MORGAN

DAVID DANNER

Oct 30, 2018

OFFICE SYMBOL: DATE:

AJV-5420

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. CHANGED AIRPORT NAME FROM CONCORD RGNL TO CONCORD-PADGETT RGNL - IDENTIFIED DURING 28-DAY REVIEW.
- 2. REMOVED TAKEOFF OBSTACLE NOTES AND REPLACED WITH NOTE TO SEE FORM 8260-15A - NO LONGER CHARTED ON SIDS.

10/24/2018: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 9/27/2018:

- 1. AIRPORTS SERVED, CORRECTED NAME OF KCLT TO "CHARLOTTE/DOUGLAS INTL".
- 2. AIRPORTS SERVED, CORRECTED NAME OF KRUQ TO "MID-CAROLINA RGNL".
- 3. DP ROUTE DESCRIPTION, CONCORD-PADGETT RGNL, TAKEOFF RWY 2, CORRECTED SPELLING OF "HEADING".
- 4. ADDITIONAL FLIGHT DATA, CORRECTED SPELLING OF "CHARLOTTE/DOUGLAS INTL".
- 5. ADDITIONAL FLIGHT DATA, CORRECTED SPELLING OF "LINCOLNTON".



DEPARTURE (DATA RECORD)

DP Name		Number		DP ComputerCode			Superseded Number		Dated	Effective Date
ESTRR		FOUR		ESTRR4.ESTRR			THREE		8/17/2017	03 JAN 2019
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS	
RW05 (AER)	351232.23N/0805659.80W	N	-	-	-	-			CG 500 FT/NM TO 1300	
1260 MSL		-	-	VA	048.47	-				
		-	-	VM	048.00	-				
GINNN	350233.33N/0812807.08W	Y	FB	DF	-	-				
RW18C (AER)	351338.63N/0805711.41W	N	-	-	-	-			CG 500 FT/NM TO 1260	
1260 MSL		-	-	VA	175.96	-				
		-	-	VM	175.96	-				
GINNN	350233.33N/0812807.08W	Y	FB	DF	-	-				
RW18L (AER)	351329.05N/0805610.17W	N	-	-	-	-			CG 500 FT/NM TO 1260	
1260 MSL		-	-	VA	175.97	-				
		-	-	VM	175.97	-				
GINNN	350233.33N/0812807.08W	Y	FB	DF	-	-				
RW18R (AER)	351331.02N/0805802.71W	N	-	-	-	-			CG 500 FT/NM TO 1260	
1260 MSL		-	-	VA	175.96	-				
		-	-	VM	193.00	-				
GINNN	350233.33N/0812807.08W	Y	FB	DF	-	-				
RW23 (AER)	351321.42N/0805552.12W	N	-	-	-	-			CG 500 FT/NM TO 1260	
1260 MSL		-	-	VA	228.48	-				
		-	-	VM	228.00	-				
GINNN	350233.33N/0812807.08W	Y	FB	DF	-	-				
RW36C (AER)	351159.97N/0805702.92W	N	-	-	-	-			CG 500 FT/NM TO 1260	
1260 MSL		-	-	VA	355.96	-				
		-	-	VM	323.00	-				
GINNN	350233.33N/0812807.08W	Y	FB	DF	-	-				

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ESTRR		FOUR		ESTRR4.ESTRR			THREE		8/17/2017	03 JAN 2019
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS	
RW36L (AER)	351202.23N/0805755.07W	N	-	-	-	-			CG 500 FT/NM TO 1400	
1260 MSL		-	-	VA	355.96	-				
		-	-	VM	308.00	-				
GINNN	350233.33N/0812807.08W	Y	FB	DF	-	-				
RW36R (AER)	351203.45N/0805602.82W	N	-	-	-	-			CG 500 FT/NM TO 1260	
1260 MSL		-	-	VA	355.97	-				
		-	-	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	-	-			ESTRR4.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				