

**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SUPERSEDED NUMBER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>
IRVVV	ONE	IRVVV1.IRVVV	NONE		
<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 MUNBE, THENCE...

TAKEOFF RWY 1R: CLIMB ON HEADING 002.96 TO 1260, THEN ON HEADING 330.00 FOR VECTORS TO MUNBE, THENCE...

TAKEOFF RWY 18: CLIMB ON HEADING 182.97 TO 1260 FOR VECTORS TO MUNBE, THENCE...

TAKEOFF RWY 19L: CLIMB ON HEADING 182.96 TO 1260 FOR VECTORS TO MUNBE, THENCE...

TAKEOFF RWY 19R: CLIMB ON HEADING 182.96 TO 1260, THEN ON HEADING 200.00 FOR VECTORS TO MUNBE, THENCE...

TAKEOFF RWY 36: CLIMB ON HEADING 002.97 TO 1260, THEN ON HEADING 025.00 FOR VECTORS TO MUNBE, THENCE...

...ON DEPICTED ROUTE TO IRVVV, MAINTAIN 8000. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

JQF:

TAKEOFF RWY 2: CLIMB ON HEADING 016.46 TO 2200 FOR VECTORS TO MUNBE, THENCE...

TAKEOFF RWY 20: CLIMBING LEFT TURN HEADING 150.00 TO 2400 FOR VECTORS TO MUNBE, THENCE...

AKH:

TAKEOFF RWY 3: CLIMB ON HEADING 049.34 TO 2700 BEFORE TURNING LEFT FOR VECTORS TO MUNBE, THENCE...

TAKEOFF RWY 21: CLIMB ON HEADING 214.33 TO 1600 BEFORE PROCEEDING NORTH FOR VECTORS TO MUNBE, THENCE...

IPJ:

TAKEOFF RWY 5: CLIMB ON HEADING 063.15 TO 2000 BEFORE PROCEEDING ON COURSE FOR VECTORS TO MUNBE, THENCE...

TAKEOFF RWY 23: CLIMB ON HEADING 243.16 TO 2800 BEFORE TURNING LEFT FOR VECTORS TO MUNBE, THENCE...

RUQ:

TAKEOFF RWY 2: CLIMB ON ASSIGNED HEADING FOR VECTORS TO MUNBE, THENCE...

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

...ON DEPICTED ROUTE TO IRVVV. MAINTAIN 3000, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

DEPARTING EQY, LKR, VUJ, AND UZA: CLIMB ON ASSIGNED HEADING FOR VECTORS TO MUNBE, THEN ON DEPICTED ROUTE TO IRVVV. 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>
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PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS.



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IRVVV	ONE	IRVVV1.IRVVV	NONE		

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED.

PROCEDURAL DATA NOTES:

NOTE: FOR GSO TERMINAL ARRIVALS ONLY, FILED 9000 AND BELOW.

NOTE: MAINTAIN 250 KIAS UNTIL ADVISED.

TAKEOFF MINIMUMS:

CLT:

RWY 1R, 18, 19L/R, 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 MINMUM CLIMB OF 308 FT/NM TO 1200.

LKR:

RWY 6: 300-1 1/4 OR STANDARD WITH MINMUM 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 TOWER (37-001173) 352049.00N/0811014.00W (CLIMB-TO ALTITUDE).



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IRVVV	ONE	IRVVV1.IRVVV	NONE		

IPJ:
RWY 5: 2340 MSL TOWER (37-001120) 352426.51N/0810746.67W.
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 MSL TOWER (37-000949) 352151.00N/0811112.00W (CLIMB-TO ALTITUDE).

LKR:
RWY 6: 641 MSL TREE 344348.00N/0804945.00W (CLIMB GRADIENT), (CLIMB GRADIENT TERMINATION ALTITUDE), 654 MSL TREE 344351.00N/0804936.00W (CEILLING), 654 MSL TREE 344351.00N/0804933.00W (VISIBILITY).
RWY 24: 618 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/0800804.59W (VISIBILITY).

RUQ:
RWY 20: 1121 FT MSL TOWER 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.

<u>AIRPORTS SERVED:</u>	<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

QUALITY
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IRVVV	ONE	IRVVV1.IRVVV	NONE		
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:

CHART: CAARZ.

REMARKS:

CLT, JQF, AKH, EQY, IPJ, LKR, VUJ, RUQ, UZA: ORDER 8260.3G, LEGACY ICA USED FOR DESIGN AND EVALUATION.
 ENVIRONMENTAL REVIEW UNDER ORDER 1050.1 (LATEST EDITION) REQUIREMENTS WORKSHEET AND NOISE SCREENING HAVE BEEN ACCOMPLISHED.
 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.
 100 FOOT VEGETATION USED PER FPT.
 WAIVER REQUEST: STANDARDIZATION OF CLIMB GRADIENTS FOR ALL RNAV DEPARTURE PROCEDURES WITHIN CLT ATCT/TRACON AIRSPACE.
 WAIVER REQUEST: AN ATC REQUESTED MAINTAIN ALTITUDE LOWER THAN THE UNRESTRICTED CLIMB ALLOWED BY TERPS EVALUATION.
 WAIVER REQUEST: USING LESS ROC THAN REQUIRED FOR DP LEVEL SURFACE.
 WAIVER REQUEST: NO CHARTING OF IF ALTITUDE.
 CHART NOTE: (CLT ONLY) SEE ADDITIONAL REQUIREMENTS ON AAUP.

FLIGHT INSPECTED BY

GALEN W COLLINS

SIGNATURE
Digitally signed by
APRIL T SARMENTO

Jul 02, 2026

OFFICE
 AJF

DATE
 07/02/2026

DEVELOPED BY

JACOB CLARK

SIGNATURE
Digitally signed by
JACOB H CLARK
 May 21, 2026

OFFICE
 AJV-A432

DATE
 02/12/2026

APPROVED BY

CASIMIR TABAKA

SIGNATURE
Digitally signed by
APRIL T SARMENTO

OFFICE
 AJV-A432

DATE

TITLE
 MANAGER

REQUIRED EFFECTIVE DATE

ROUTINE

Jul 02, 2026

COORDINATED WITH:

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



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IRVVV	ONE	IRVVV1.IRVVV	NONE		

CHANGES - REASONS:
ORIGINAL PROCEDURE.

05/21/26: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 02/12/26.

1. PROCEDURAL DATA NOTES: CHANGED NOTE FROM "NOTE: MAINTAIN 250K UNTIL ADVISED." TO "NOTE: MAINTAIN 250 KIAS UNTIL ADVISED." - IAW 8260.46K 2-1-5C.(3), REQUESTED BY FPT, SEE EMAIL IN DATA FOLDER.

2. CHANGED NOTE FROM "CHART NOTE: FOR GSO TERMINAL ARRIVALS ONLY FILED 9000 AND BELOW." TO " NOTE: FOR GSO TERMINAL ARRIVALS ONLY FILED 9000 AND BELOW." - IAW 8260.46K 2-1-5H(9).

3. CHANGED TAKEOFF MINIMUMS AT VUJ FOR RWY 22L FROM "STANDARD" TO "STANDARD." - TYPOGRAPHICAL ERROR.

4. CONTROLLING OBSTACLES: VUJ: CHANGED THE VISIBILITY OBSTACLE LONGITUDE CARDINAL DIRECTION FROM N TO W. - TYPOGRAPHICAL ERROR.

5. REMARKS: CHANGED WAIVER VERBIAGE FROM "CHARTING MINIMUM CLIMB GRADIENTS THAT SUPPORT THE CLT DEPARTURE PROCEDURE PROGRAM." TO "STANDARDIZATION OF CLIMB GRADIENTS FOR ALL RNAV DEPARTURE PROCEDURES WITHIN CLT ATCT/TRACON AIRSPACE." - MATCH WAIVER.



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

DP NAME				NUMBER		DP COMPUTER CODE		SUPERSEDED NUMBER		DATED		ACTUAL EFFECTIVE DATE	
IRVVV				ONE		IRVVV1.IRVVV		NONE					
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS				
RW1L (AER)	351202.23N/0805755.07W	N	-	-	-	-							
1260 MSL		-	-	VA	355.96	-	AT/ABOVE 1260		CG 500 FT/NM TO 1400				
		-	-	VM	308.00	-							
RW1R (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	-							

QUALITY

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QUALITY
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IRVVV		ONE		IRVVV1.IRVVV		NONE			
<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>
RW36 (AER)	351203.44N/0805602.82W	N	-	-	-	-			
1260 MSL		-	-	VA	355.97	-	AT/ABOVE 1260		CG 500 FT/NM TO 1260
		-	-	VM	018.00	-			
MUNBE	351945.50N/0802921.60W	Y	-	IF	-	-			
CAARZ	352547.11N/0800929.20W	Y	FB	TF	069.59	17.33			
IRVVV	354125.35N/0800032.01W	Y	FB	TF	025.03	17.24			

