

**U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION**  
**GRAPHIC DEPARTURE PROCEDURE (DP)**

Bearings, headings, courses, tracks, and radials are magnetic. Elevation 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. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
MLTRE	TWO	MLTRE2.MLTRE	ONE	25 AUG 11	21 JULY 2016

**TYPE:** RNAV SID

**DP ROUTE DESCRIPTION:**

**TAKEOFF RWY 3:** CLIMB HEADING 031.40 TO 560 MSL, THEN LEFT TURN DIRECT MLTRE, THENCE...

**TAKEOFF RWY 15:** CLIMB HEADING 154.41 TO 560 MSL, THEN LEFT TURN DIRECT ANGRE, THEN ON DEPICTED ROUTE TO MLTRE, THENCE...

**TAKEOFF RWY 21:** CLIMB HEADING 211.41 TO 560 MSL, THEN LEFT TURN DIRECT ANGRE, THEN ON DEPICTED ROUTE TO MLTRE, THENCE...

**TAKEOFF RWY 33:** CLIMB HEADING 334.42 TO 560 MSL, DIRECT MLTRE, THENCE...

...VIA ASSIGNED TRANSITION. MAINTAIN 4000. EXPECT CLEARANCE TO FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):**

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
JYMSE	MLTRE2.JYMSE	MLTRE	JYMSE	TRACK 346.01	13.54	4000	1600	
VANCE	MLTRE2.VAN	MLTRE	VAN VORTAC	TRACK 317.66	12.79	4000	1600	

**PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:**

**NOTE:** TRANSPONDER CODE WILL BE ISSUED BY CHARLESTON CLEARANCE DELIVERY.

**NOTE:** IF UNABLE TO ACCEPT CLIMB RATE, ADVISE ATC ON INITIAL CONTACT.

**NOTE:** DME/DME/IRU OR GPS REQUIRED.

**NOTE:** RNAV 1.

**NOTE:** RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.

**NOTE:** FOR NON-GPS EQUIPPED AIRCRAFT: CHS AND VAN DMES MUST BE OPERATIONAL FOR TAKEOFF RWY 15, 21; FLO DME MUST BE OPERATIONAL FOR TAKEOFF RWY 3, 33.

**RWY 15, 33,** STANDARD.

**RWY 3, 21,** STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 560.

**TAKEOFF OBSTACLES NOTES:**

**NOTE: RWY3,** ELECTRICAL EQUIPMENT, TOWERS, AND TREES BEGINNING 98 FT FROM DER, 409 FT RIGHT OF CENTERLINE, UP TO 104 FT AGL/ 136 FT MSL. TREE 2653 FT FROM DER, 993 FT LEFT OF CENTERLINE, 100 FT AGL/ 139 FT MSL.

**NOTE: RWY15,** TREES BEGINNING 1297 FT FROM DER, 772 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/ 119 FT MSL.

**NOTE: RWY33,** TREES BEGINNING 2190 FT FROM DER, 1002 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/ 139 FT MSL. TREES BEGINNING 3061 FT FROM DER, 1284 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/ 144 FT MSL.



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**CONTROLLING OBSTACLES:**

**LOST COMMUNICATIONS PROCEDURES:**

**ADDITIONAL FLIGHT DATA:**

REFERENCE MAG VAR: KCHS 7W EPOCH YEAR 10. DME/DME ASSESSMENT: SAT (RNP 2.0)  
CHART: TOP ALTITUDE: 4000.

**AIRPORTS SERVED:**

CHARLESTON AFB/INTL

CHARLESTON, SC

**COMMUNICATIONS:**

ATIS, GND CON, CLNC DEL, DEP CON, TOWER

**FIXES AND/OR NAVAIDS:**



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**REMARKS:**

CLIMB GRADIENTS ESTABLISHED TO SUPPORT MINIMUM DME/DME/IRU RECEPTION ALTITUDES PROVIDED IN RNAV PRO RUNS.

**FLIGHT INSPECTED BY:**

FLIGHT INSPECTION NOT REQUIRED, MANAGER

*Digitally signed by*

AJV-54      **A**  
May 04, 2016

06/27/2011

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**DEVELOPED BY:**

AJV-5443

03/16/2016

**APPROVED BY:**

*Digitally signed by* Mar 16, 2016

AJV-544

**COORDINATED WITH:**

May 04, 2016  
ATA, ALPA, APA, AOPA, NBAA, ZJX

**CHANGES:**

ADDED: CHART: TOP ALTITUDE: 4000.

**REASONS:**

ATC REQUEST.



## DEPARTURE (DATA RECORD)

DP Name		Number	DP Computer Code				Superseded Number	Dated	Effective Date
MLTRE		TWO	MLTRE2.MLTRE				ONE	25 AUG 11	21 JULY 2016
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW03 (AER)	325305.35N/0800244.17W	N	-	-	-	-			
560 MSL		-	-	VA	024.40	-			CG 500 FT/NM TO 560
MLTRE	332009.06N/0801519.24W	Y	FB	DF	-	-			LEFT TURN
RW15 (AER)	325446.88N/0800253.23W	N	-	-	-	-			
560 MSL		-	-	VA	147.41	-			
ANGRE	325613.34N/0795550.00W	Y	FB	DF	-	-			LEFT TURN
MLTRE	332009.06N/0801519.24W	Y	FB	TF	325.67	28.95			
RW21 (AER)	325408.42N/0800210.25W	N	-	-	-	-			
560 MSL		-	-	VA	204.41	-			CG 500 FT/NM TO 560
ANGRE	325613.34N/0795550.00W	Y	FB	DF	-	-			LEFT TURN
MLTRE	332009.06N/0801519.24W	Y	FB	TF	325.67	28.95			
RW33 (AER)	325331.84N/0800156.38W	N	-	-	-	-			
560 MSL		-	-	VA	327.42	-			
MLTRE	332009.06N/0801519.24W	Y	FB	DF	-	-			
MLTRE	332009.06N/0801519.24W	Y	-	IF	-	-			MLTRE2.JYMSE
JYMSE	333249.07N/0802107.58W	Y	FB	TF	339.01	13.54			
MLTRE	332009.06N/0801519.24W	Y	-	IF	-	-			MLTRE2.VAN
VAN VORTAC	332829.39N/0802655.11W	Y	FB	TF	310.66	12.79			