

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EMMTT	FOUR	EMMTT4.EMMTT	THREE	08 AUG 15	31 MAR 2016

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 13L: CLIMB HEADING 132.64 TO 1000, THEN HEADING 132.64 OR AS ASSIGNED BY ATC, MAINTAIN 3000, THENCE...

TAKEOFF RWY 13R: CLIMB HEADING 132.62 TO 1000, THEN HEADING 132.62 OR AS ASSIGNED BY ATC, MAINTAIN 3000, THENCE...

...EXPECT RADAR VECTORS TO CROSS WIGIS AT OR ABOVE 4000, THEN ON TRACK 081.02 TO CROSS EMMTT AT OR ABOVE 6000, THEN ON (TRANSITION). EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

TAKEOFF RWY 31L: CLIMB HEADING 312.63 TO 1000, THEN DIRECT TO CROSS FLOWT AT OR ABOVE 3000, THEN ON TRACK 030.67 TO CROSS WIGIS AT OR ABOVE 4000, THENCE...

TAKEOFF RWY 31R: CLIMB HEADING 312.65 TO 1000, THEN DIRECT TO CROSS BARYY AT OR ABOVE 3000, THEN ON TRACK 030.62 TO CROSS WIGIS AT OR ABOVE 4000, THENCE...

...ON TRACK 081.02 TO CROSS EMMTT AT OR ABOVE 6000, THEN ON (TRANSITION). MAINTAIN 6000, EXPECT 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
BDDAY	EMMT4.BDDAY	EMMTT	THHOR	TRACK 121.69	28.20	10000	2300	
			JJANE	TRACK 091.41	25.16	10000	2000	
			MRSSH	TRACK 091.68	54.11	10000	2600	
			BDDAY	TRACK 114.66	34.60	10000	1900	
BSKAT	EMMT4.BSKAT	EMMTT	ZERLU	TRACK 082.09	23.22	10000	2100	
			SWDIA	TRACK 064.12	27.10	10000	2100	
			ZACHH	TRACK 064.45	86.08	10000	2100	
			BSKAT	TRACK 057.11	39.63	10000	1900	
FORCK	EMMT4.FORCK	EMMTT	HANUH	TRACK 110.46	25.26	10000	2300	
			LYING	TRACK 079.90	25.18	10000	2000	
			FORCK	TRACK 080.17	79.75	10000	2100	
LOOSE	EMMT4.LOOSE	EMMTT	TRRCH	TRACK 096.94	23.49	10000	2300	
			JAYXX	TRACK 065.90	26.72	10000	2000	
			TRYTN	TRACK 066.09	84.64	10000	2000	
			LOOSE	TRACK 067.34	62.41	10000	2400	

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EMMTT	FOUR	EMMTT4.EMMTT	THREE	08 AUG 15	31 MAR 2016
MRSSH	EMMT4.MRSSH	EMMTT	THHOR	TRACK 121.69	28.20 10000 2300
			JJANE	TRACK 091.41	25.16 10000 2000
			MRSSH	TRACK 091.68	54.11 10000 2600
ZALEA	EMMT4.ZALEA	EMMTT	THHOR	TRACK 121.69	28.20 10000 2300
			JJANE	TRACK 091.41	25.16 10000 2000
			MRSSH	TRACK 091.68	54.11 10000 2600
			ZALEA	TRACK 105.35	69.61 10000 2100

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: RADAR REQUIRED.

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: RNAV 1.

NOTE: FOR USE BY TURBOJET AIRCRAFT ONLY.

NOTE: RNAV-CAPABLE PROPS: FILE AND EXPECT KUSSO RNAV SID

NOTE: BDDAY TRANSITION: ATC ASSIGNED ONLY.

NOTE: MRSSH TRANSITION: FOR AIRCRAFT LANDING IN SHREVEPORT, JACKSON AND MONROE TERMINAL AREA AIRPORTS ONLY.

TAKEOFF MINIMUMS:

RWY 13L, 13R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1200. **RWY 31L, 31R,** STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1000.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 13L, TREES, POLES AND ELECTRICAL SYSTEMS BEGINNING 844 FT FROM DER, 515 FT LEFT OF CENTERLINE, UP TO 45 FT AGL/541 FT MSL. CRANE 5270 FT FROM DER, 568 FT LEFT OF CENTERLINE, 130 FT AGL/630 FT MSL.

NOTE: RWY 13R, POLES AND FENCES BEGINNING 693 FT FROM DER, 601 FT RIGHT OF CENTERLINE, UP TO 29 FT AGL/501 FT MSL. SIGN 779 FT FROM DER, 669 FT LEFT OF CENTERLINE, 30 FT AGL/503 FT MSL. TREES BEGINNING 1122 FT FROM DER, 670 FT LEFT AND RIGHT OF CENTERLINE, UP TO 40 FT AGL/514 FT MSL. SIGN 1424 FT FROM DER, 763 FT LEFT OF CENTERLINE, 45 FT AGL/516 FT MSL. ROD ON STAKE 2234 FT FROM DER, 979 FT LEFT OF CENTERLINE, 65 FT AGL/537 FT MSL.

NOTE: RWY 31L, TREES BEGINNING 327 FT FROM DER, 374 FT RIGHT OF CENTERLINE, UP TO 60 FT AGL/501 FT MSL.

NOTE: RWY 31R, POLE 38 FT FROM DER, 501 FT LEFT OF CENTERLINE, 27 FT AGL/487 FT MSL. TREES BEGINNING 366 FT FROM DER, 552 FT RIGHT OF CENTERLINE, UP TO 65 FT AGL/530 FT MSL. POLE 1531 FT FROM DER, 719 FT RIGHT OF CENTERLINE, UP TO 61 FT AGL/521 FT MSL.

CONTROLLING OBSTACLES:

RWY 13L: 1368 FT MSL ANTENNA 324648.00N/0964814.00W.

RWY 13R: 1368 FT MSL ANTENNA 324648.00N/0964814.00W.

LOST COMMUNICATIONS PROCEDURES:



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EMMTT	FOUR	EMMTT4.EMMTT	THREE	08 AUG 15	31 MAR 2016

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KDAL 3E EPOCH YR: 2020.
DME/DME ASSESSMENT: SAT (RNP 2.0)

CHART: TOP ALTITUDE: RWY 13L, 13R: 3000; RWY 31L, 31R: 6000.

CHART SPEED ICON MAXIMUM SPEED 210 KIAS AT BARYY.
CHART SPEED ICON MAXIMUM SPEED 230 KIAS AT FLOWT.
CHART SPEED ICON MAXIMUM SPEED 240 KIAS AT WIGIS.

CHART: MEA/MOCA FROM WIGIS TO EMMTT, 4000/2100.

PILOT NAVIGATION AREA:

7NM ARC CENTERED ON WIGIS (IF), CW
FROM: POINT A (BEARING 036 DEGREES TO WIGIS)
TO: POINT B (BEARING 126 DEGREES TO WIGIS)
MINIMUM ALTITUDE – 4000

AIRPORTS SERVED:

DALLAS-LOVE FIELD DALLAS, TX

COMMUNICATIONS:

ATIS, CLNC DEL, GND CON, LOVE TWR, REGIONAL DEP CON

FIXES AND/OR NAVAIDS:

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REMARKS:

LETTER OF APPROVAL ON FILE FOR AIRPORTS/RUNWAYS OUTSIDE THE PNA.

CHANGES:

1. INCREASED +3 DEGREES ALL HEADINGS, TRACKS, AND PNA BEARINGS.
2. CHANGED REFERENCE MAGVAR FROM KDAL 6E EPOCH YEAR 1990 TO 3E EPOCH YEAR 2020.

REASONS:

- 1./2. MAGVAR UPDATED FROM 6E/1990 TO 3E/2020.



DEPARTURE (DATA RECORD)

DP Name		Number		DP Computer Code			Superseded Number		Dated	Effective Date
EMMTT		FOUR		EMMTT4.EMMTT			THREE		20 AUG 15	31 MAR 2016
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS	
RW13L (AER)*	325123.36N/0965121.21W*	N	-	-	-	-			*DISPL THLD (400 FT)	
1000 MSL		-	-	VA	135.64	-			CG 500 FT/NM TO 1200	
		-	-	VM	135.64	-				
WIGIS	325728.71N/0965245.79W	Y	FB	DF	-	-	AT/ABOVE 4000	AT/BELOW 240K		
RW13R (AER)*	325101.28N/0965144.41W*	N	-	-	-	-			*DISPL THLD (490 FT)	
1000 MSL		-	-	VA	135.62	-			CG 500 FT/NM TO 1200	
		-	-	VM	135.62	-				
WIGIS	325728.71N/0965245.79W	Y	FB	DF	-	-	AT/ABOVE 4000	AT/BELOW 240K		
RW31L (AER)	325002.51N/0965036.30W	N	-	-	-	-				
1000 MSL		-	-	VA	315.63	-			CG 500 FT/NM TO 1000	
FLOWT	325409.84N/0965522.97W	Y	FB	DF	-	-	AT/ABOVE 3000	AT/BELOW 230K		
WIGIS	325728.71N/0965245.79W	Y	FB	TF	033.67	3.98	AT/ABOVE 4000	AT/BELOW 240K		
RW31R (AER)	325031.35N/0965020.95W	N	-	-	-	-				
1000 MSL		-	-	VA	315.65	-			CG 500 FT/NM TO 1000	
BARYY	325433.01N/0965504.40W	Y	FB	DF	-	-	AT/ABOVE 3000	AT/BELOW 210K		
WIGIS	325728.71N/0965245.79W	Y	FB	TF	033.62	3.51	AT/ABOVE 4000	AT/BELOW 240K		
WIGIS	325728.71N/0965245.79W	Y	-	IF	-	-	AT/ABOVE 4000	AT/BELOW 240K		
EMMTT	325756.54N/0964729.39W	Y	FB	TF	084.02	4.46	AT/ABOVE 6000			
EMMTT	325756.54N/0964729.39W	Y	-	IF	-	-	AT/ABOVE 6000		EMMTT4.BDDAY	
THHOR	324148.38N/0962000.56W	Y	FB	TF	124.69	28.20				
JJANE	323948.54N/0955017.67W	Y	FB	TF	094.41	25.16				
MRSSH	323507.07N/0944627.83W	Y	FB	TF	094.68	54.11				
BDDAY	321856.11N/0941018.17W	Y	FB	TF	117.66	34.60				
EMMTT	325756.54N/0964729.39W	Y	-	IF	-	-	AT/ABOVE 6000		EMMTT4.BSKAT	
ZERLU	325953.11N/0961958.89W	Y	FB	TF	085.09	23.22				
SWDIA	331022.97N/0955014.24W	Y	FB	TF	067.12	27.10				

QUALITY
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CHECKED

DEPARTURE (DATA RECORD)

DP Name		Number		DP Computer Code			Superseded Number		Dated	Effective Date
EMMTT		FOUR		EMMTT4.EMMTT			THREE		20 AUG 15	31 MAR 2016
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS	
ZACHH	334250.88N/0941456.02W	Y	FB	TF	067.45	86.08				
BSKAT	340230.74N/0933335.42W	Y	FB	TF	060.11	39.63				
EMMTT	325756.54N/0964729.39W	Y	-	IF	-	-	AT/ABOVE 6000		EMMTT4.FORCK	
HANUH	324749.14N/0962000.18W	Y	FB	TF	113.46	25.26				
LYING	325052.67N/0955020.65W	Y	FB	TF	082.90	25.18				
FORCK	325947.52N/0941611.34W	Y	FB	TF	083.17	79.75				
EMMTT	325756.54N/0964729.39W	Y	-	IF	-	-	AT/ABOVE 6000		EMMTT4.LOOSE	
TRRCH	325349.81N/0962000.56W	Y	FB	TF	099.94	23.49				
JAYXX	330324.50N/0955021.30W	Y	FB	TF	068.90	26.72				
TRYTN	333304.70N/0941544.53W	Y	FB	TF	069.09	84.64				
LOOSE	335346.88N/0930508.38W	Y	FB	TF	070.34	62.41				
EMMTT	325756.54N/0964729.39W	Y	-	IF	-	-	AT/ABOVE 6000		EMMTT4.MRSSH	
THHOR	324148.38N/0962000.56W	Y	FB	TF	124.69	28.20				
JJANE	323948.54N/0955017.67W	Y	FB	TF	094.41	25.16				
MRSSH	323507.07N/0944627.83W	Y	FB	TF	094.68	54.11				
EMMTT	325756.54N/0964729.39W	Y	-	IF	-	-	AT/ABOVE 6000		EMMTT4.ZALEA	
THHOR	324148.38N/0962000.56W	Y	FB	TF	124.69	28.20				
JJANE	323948.54N/0955017.67W	Y	FB	TF	094.41	25.16				
MRSSH	323507.07N/0944627.83W	Y	FB	TF	094.68	54.11				
ZALEA	321245.50N/0932835.29W	Y	FB	TF	108.35	69.61				

QUALITY
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CHECKED