

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
HRPER	THREE	HRPER3.HRPER	TWO	11/13/2014	04 FEB 2016

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 17C: CLIMB HEADING 176.26 TO INTERCEPT COURSE 204.62 TO BPARK, THEN ON TRACK 254.87 TO CROSS YAMEL AT OR ABOVE 5000, THEN ON TRACK 270.17 TO FIRMN, THEN ON TRACK 281.98 TO TYGGR, THENCE...

TAKEOFF RWY 17R: CLIMB HEADING 176.26 TO INTERCEPT COURSE 202.87 TO BPARK, THEN ON TRACK 254.87 TO CROSS YAMEL AT OR ABOVE 5000, THEN ON TRACK 270.17 TO FIRMN, THEN ON TRACK 281.98 TO TYGGR, THENCE...

TAKEOFF RWY 18L: CLIMB HEADING 176.25 TO INTERCEPT COURSE 192.50 TO BPARK, THEN ON TRACK 254.87 TO CROSS YAMEL AT OR ABOVE 5000, THEN ON TRACK 270.17 TO FIRMN, THEN ON TRACK 281.98 TO TYGGR, THENCE...

TAKEOFF RWY 18R: CLIMB HEADING 176.25 TO INTERCEPT COURSE 192.00 TO BPARK, THEN ON TRACK 254.87 TO CROSS YAMEL AT OR ABOVE 5000, THEN ON TRACK 270.17 TO FIRMN, THEN ON TRACK 281.98 TO TYGGR, THENCE...

TAKEOFF RWY 35C: CLIMB HEADING 356.26 TO INTERCEPT COURSE 346.42 TO CROSS HAZKL AT OR ABOVE 5000, THEN ON TRACK 277.02 TO TULUY, THEN ON TRACK 255.43 TO HUNNT, THEN ON TRACK 242.16 TO TYGGR, THENCE...

TAKEOFF RWY 35L: CLIMB HEADING 356.26 TO INTERCEPT COURSE 347.71 TO CROSS HAZKL AT OR ABOVE 5000, THEN ON TRACK 277.02 TO TULUY, THEN ON TRACK 255.43 TO HUNNT, THEN ON TRACK 242.16 TO TYGGR, THENCE...

TAKEOFF RWY 36L: CLIMB HEADING 356.25 TO 1120, THEN DIRECT TO CROSS HAZKL AT OR ABOVE 5000, THEN ON TRACK 277.02 TO TULUY, THEN ON TRACK 255.43 TO HUNNT, THEN ON TRACK 242.16 TO TYGGR, THENCE...

TAKEOFF RWY 36R: CLIMB HEADING 356.25 TO 1120, THEN DIRECT TO CROSS HAZKL AT OR ABOVE 5000, THEN ON TRACK 277.02 TO TULUY, THEN ON TRACK 255.43 TO HUNNT, THEN ON TRACK 242.16 TO TYGGR, THENCE...

...ON TRACK 287.31 TO DBLSS, THEN ON TRACK 287.18 TO HRPER, THEN ON (TRANSITION). MAINTAIN 10000, EXPECT FILED ALTITUDE TEN MINUTES AFTER DEPARTURE.

TAKEOFF RWY 31L/R: CLIMB HEADING ASSIGNED BY ATC, EXPECT RADAR VECTORS TO TYGGR, THENCE...

ON TRACK 287.31 TO DBLSS, THEN ON TRACK 287.18 TO HRPER, THEN ON (TRANSITION). MAINTAIN 5000, EXPECT FILED ALTITUDE TEN 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
HULZE	HRPER3.HULZE	HRPER	HULZE	TRACK 284.46	37.21	10000	3100	

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: RNAV 1.

NOTE: RADAR REQUIRED.

NOTE: FOR USE BY TURBOJETS ONLY.

NOTE: NON-RNAV PROPS FILE AND EXPECT KINGDOM OR COYOTE DEPARTURE.

NOTE: RNAV-CAPABLE PROPS: FILE AND EXPECT THE SWABR RNAV SID.

NOTE: AIRCRAFT LANDING LBB TERMINAL AREA FILE AND/OR EXPECT THE KATZZ RNAV DEPARTURE.



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TAKEOFF MINIMUMS:

RWY 31L, 31R, STANDARD.

RWY 17C, 17R, 18L, 18R, 35C, 35L, 36L, 36R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1120.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 31L, TREES BEGINNING 928 FT FROM DER, 724 FT LEFT OF CENTERLINE, UP TO 55 FT AGL/654 FT MSL. TREES 1229 FT FROM DER, 729 FT RIGHT OF CENTERLINE, UP TO 28 FT AGL/637 FT MSL. TRANSMISSION POLES AND TOWERS BEGINNING 3402 FT FROM DER, 1398 FT RIGHT OF CENTERLINE, UP TO 110 FT AGL/730 FT MSL.

NOTE: RWY 31R, BUILDING 732 FT FROM DER, 633 FT LEFT OF CENTERLINE, 34 FT AGL/604 FT MSL.

CONTROLLING OBSTACLES:**LOST COMMUNICATIONS PROCEDURES:****ADDITIONAL FLIGHT DATA:**

REFERENCE MAG VAR: KDFW 4E EPOCH YEAR: 2015.

DME/DME ASSESSMENT: SAT (RNP 2.0)

CHART: MEA/MOCA FROM TYGGR TO DBLSS 10000/3600, FROM DBLSS TO HRPER 10000/2900.

CHART: TOP ALTITUDE RWY 31L/31R: 5000; RWY 17C/17R/18L/18R/35L/35C/36L/36R: 10000.

CHART SPEED ICON MAXIMUM SPEED 240 KIAS AT YAMEL.

CHART SPEED ICON MAXIMUM SPEED 240 KIAS AT HAZKL.

PILOT NAVIGATION AREA:

7 NM ARC CENTERED ON TYGGR (IF), CW

FROM: POINT A (BEARING 242 DEGREES TO TYGGR)

TO: POINT B (BEARING 332 DEGREES TO TYGGR)

MINIMUM ALTITUDE – 9000

AIRPORTS SERVED:

DALLAS/FORT WORTH INTL

DALLAS-FORT WORTH, TX

COMMUNICATIONS:

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



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FIXES AND/OR NAVAIDS:

CHART: ALIAN, FUMED, HUDAD, KATZZ, LYNDE, MUTEE, PGLET, RBBIT, ROOOO, RUFFS, WSTEX.



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REMARKS:

PGO VORTAC IS CLOSEST SUITABLE NAVAID (161.75 NM) SET AT MAGVAR 4E TO USE AS RECOMMENDED NAVAID FOR CF LEGS. WAIVER ON FILE FOR TERMINOLOGY USED IN DP ROUTE DESCRIPTION FOR RWY 31L/R (CLIMB HEADING ASSIGNED BY ATC). LETTER OF APPROVAL ON FILE FOR VI-CF INTERCEPT ANGLES LESS THAN 10 DEGREES.

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

ATA, ALPA, APA, AOPA, NBAA, ZFW, DFW ATCT, REGIONAL APP CON, AMGR

CHANGES:

1. CHANGED CLIMB HEADING OFF RWY 17C FROM 176.27 TO 176.26.
2. CHANGED CLIMB HEADING OFF RWY 35C FROM 356.27 TO 356.26.
3. UPDATED TOP ALTITUDE DATA IN ADDITIONAL FLIGHT DATA: CHANGED FROM 10000 TO RWYS 31L/R: 5000; RWYS 17C/R, 18L/R, 35L/C, 36L/R: 10000.
4. DELETED SPEED RESTRICTION FROM INITIAL DEPARTURE ROUTE FOR YAMEL AND HAZKL AND ADDED SPEED RESTRICTION TO ADDITIONAL FLIGHT DATA.
5. CHANGED TRANSITION FROM DYREK TO HULZE, NEW MOCA IS 3100.
6. ADDED CHART NOTE FOR RNAV-CAPABLE PROPS TO FILE THE SWABR RNAV SID.
7. CHANGED NOTE FROM – PROPS FILE AND EXPECT KINGDOM OR COYOTE DEPARTURE TO NON-RNAV CAPABLE PROPS TO FILE AND EXPECT THE KINGDOM OR COYOTE DEPARTURE.
8. ADDITIONAL FLIGHT DATA: CHANGED IDF FROM POOBR TO TYGGR; CHANGED POINT A BEARING FROM 238 DEGREES TO 242 DEGREES AND CHANGED POINT B BEARING FROM 328 DEGREES TO 332 DEGREES.
9. UPDATED FIXES AND/OR NAVAIDS TO BE CHARTED; REMOVED EEORE, BGLEE, SNUCK, WUDIE, IAMUP, HOOTT.
10. RWY 31L/R: CHANGED IDF FROM POOBR TO TYGGR; CHANGED ENROUTE ALTITUDE FROM 10000 TO 5000.
11. ADDED HUNNT WAYPOINT TO RWY 35L/C AND 36L/R RUNWAY TRANSITIONS.
12. UPDATED REMARKS SECTION: ADDED WAIVER AND LETTER OF APPROVAL INFORMATION.

REASONS:

- 1-2. UPDATED RWY DATA FOR RWY 17C/35C PER AIRPORT DATASHEET.
3. ADDED TOP ALTITUDE PER MEMO #225 DATED 26 SEP 2014.
4. CRITERIA: 8260.46E, SECTION 2-1-1, PARA E (3B).
- 5-11. PER ATC REQUEST.
12. ADDED FOR INFORMATIONAL PURPOSES.

8/26/2015: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 02/23/2015
ADDED FIX HUNNT TO RWY TRANSITION FOR RWY 35 C/L AND RWY 36 L/R.
CHANGED TRUE COURSE ON 15C FOR RWY 17C FROM 180.27 TO 180.26.
CHANGED TRUE COURSE ON 15C FOR RWY 35C FROM 000.27 TO 000.26.

QUALITY
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DEPARTURE (DATA RECORD)

DP Name		Number	DP Computer Code				Superseded Number		Dated	Effective Date
HRPER		THREE	HRPER3.HRPER				TWO		11/13/2014	04 FEB 2016
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS	
RW17C (AER)	325456.55N/0970133.49W	N	-	-	-	-				
	325136.63N/0970134.60W	-	-	VI	180.26	3.33			CG 500 FT/NM TO 1120.	
	BPARK	Y	FB	CF	208.62	5.78			RECOMMENDED NAVAID: PGO VORTAC	
	YAMEL	Y	FB	TF	258.87	3.10	AT/ABOVE 5000	AT/BELOW 240K		
	FIRMN	Y	FB	TF	274.17	5.08				
TYGGR	325322.14N/0974359.79W	Y	FB	TF	285.98	25.85				
RW17R (AER)	325456.60N/0970147.58W	N	-	-	-	-				
	325136.69N/0970148.65W	-	-	VI	180.26	3.33			CG 500 FT/NM TO 1120.	
	BPARK	Y	FB	CF	206.87	5.69			RECOMMENDED NAVAID: PGO VORTAC	
	YAMEL	Y	FB	TF	258.87	3.10	AT/ABOVE 5000	AT/BELOW 240K		
	FIRMN	Y	FB	TF	274.17	5.08				
TYGGR	325322.14N/0974359.79W	Y	FB	TF	285.98	25.85				
RW18L (AER)	325456.88N/0970302.65W	N	-	-	-	-				
	325139.37N/0970303.67W	-	-	VI	180.25	3.29			CG 500 FT/NM TO 1120.	
	BPARK	Y	FB	CF	196.50	5.34			RECOMMENDED NAVAID: PGO VORTAC	
	YAMEL	Y	FB	TF	258.87	3.10	AT/ABOVE 5000	AT/BELOW 240K		
	FIRMN	Y	FB	TF	274.17	5.08				
TYGGR	325322.14N/0974359.79W	Y	FB	TF	285.98	25.85				
RW18R (AER)	325456.93N/0970316.71W	N	-	-	-	-				
	325107.56N/0970317.90W	-	-	VI	180.25	3.82			CG 500 FT/NM TO 1120.	
	BPARK	Y	FB	CF	196.00	4.77			RECOMMENDED NAVAID: PGO VORTAC	
	YAMEL	Y	FB	TF	258.87	3.10	AT/ABOVE 5000	AT/BELOW 240K		
	FIRMN	Y	FB	TF	274.17	5.08				
TYGGR	325322.14N/0974359.79W	Y	FB	TF	285.98	25.85				
RW31L (AER)	325324.97N/0970347.79W	N	-	-	-	-				
		-	-	VM	319.06	-				
TYGGR	325322.14N/0974359.79W	Y	FB	DF	-	-				

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HRPER		THREE		HRPER3.HRPER			TWO		11/13/2014	04 FEB 2016
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS	
RW31R (AER)	325341.93N/0970003.04W	N	-	-	-	-				
		-	-	VM	315.28	-				
TYGGR	325322.14N/0974359.79W	Y	FB	DF	-	-				
RW35C (AER)	325243.96N/0970134.22W	N	-	-	-	-				
		-	-	VI	000.26	3.33				
HAZKL	330415.04N/0970311.58W	Y	FB	CF	350.42	8.29	AT/ABOVE 5000	AT/BELOW 240K	RECOMMENDED NAVAID: PGO VORTAC	
TULUY	330505.30N/0970818.66W	Y	FB	TF	281.02	4.38				
HUNNT	330353.42N/0971554.86W	Y	FB	TF	259.43	6.50				
TYGGR	325322.14N/0974359.79W	Y	FB	TF	246.16	25.85				
RW35L (AER)	325244.02N/0970148.29W	N	-	-	-	-				
		-	-	VI	000.26	3.39				
HAZKL	330415.04N/0970311.58W	Y	FB	CF	351.71	8.20	AT/ABOVE 5000	AT/BELOW 240K	RECOMMENDED NAVAID: PGO VORTAC	
TULUY	330505.30N/0970818.66W	Y	FB	TF	281.02	4.38				
HUNNT	330353.42N/0971554.86W	Y	FB	TF	259.43	6.50				
TYGGR	325322.14N/0974359.79W	Y	FB	TF	246.16	25.85				
RW36L (AER)	325244.35N/0970317.40W	N	-	-	-	-				
		-	-	VA	000.25	-				
HAZKL	330415.04N/0970311.58W	Y	FB	DF	-	-	AT/ABOVE 5000	AT/BELOW 240K	CG 500 FT/NM TO 1120.	
TULUY	330505.30N/0970818.66W	Y	FB	TF	281.02	4.38				
HUNNT	330353.42N/0971554.86W	Y	FB	TF	259.43	6.50				
TYGGR	325322.14N/0974359.79W	Y	FB	TF	246.16	25.85				
RW36R (AER)	325244.30N/0970303.33W	N	-	-	-	-				
		-	-	VA	000.25	-				
HAZKL	330415.04N/0970311.58W	Y	FB	DF	-	-	AT/ABOVE 5000	AT/BELOW 240K	CG 500 FT/NM TO 1120.	
TULUY	330505.30N/0970818.66W	Y	FB	TF	281.02	4.38				
HUNNT	330353.42N/0971554.86W	Y	FB	TF	259.43	6.50				
TYGGR	325322.14N/0974359.79W	Y	FB	TF	246.16	25.85				

QUALITY

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
TYGGR	325322.14N/0974359.79W	Y		IF					
DBLSS	330306.71N/0981350.16W	Y	FB	TF	291.31	26.92			
HRPER	332746.50N/0993100.93W	Y	FB	TF	291.18	69.24			
HRPER	332746.50N/0993100.93W	Y		IF	-	-			HRPER3.HULZE
HULZE	333927.59N/1001318.11W	Y	FB	TF	288.46	37.21			