

**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SUPERSEDED NUMBER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>
HRPER	FOUR	HRPER4.HRPER	THREE	02/04/2016	
<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	☐	☐	☒	☐	☒

DP ROUTE DESCRIPTION:

TAKEOFF RWY 17C: CLIMB ON HEADING 176.26 TO INTERCEPT COURSE 204.62 TO BPARK, THEN ON TRACK 254.87 TO CROSS YAMEL AT OR ABOVE 5000 AND AT OR BELOW 240 KIAS, THEN ON TRACK 270.17 TO FIRMN, THEN ON TRACK 281.98 TO TYGGR, THENCE...

TAKEOFF RWY 17R: CLIMB ON HEADING 176.26 TO INTERCEPT COURSE 202.87 TO BPARK, THEN ON TRACK 254.87 TO CROSS YAMEL AT OR ABOVE 5000 AND AT OR BELOW 240 KIAS, THEN ON TRACK 270.17 TO FIRMN, THEN ON TRACK 281.98 TO TYGGR, THENCE...

TAKEOFF RWY 18L: CLIMB ON HEADING 176.25 TO INTERCEPT COURSE 192.52 TO BPARK, THEN ON TRACK 254.87 TO CROSS YAMEL AT OR ABOVE 5000 AND AT OR BELOW 240 KIAS, THEN ON TRACK 270.17 TO FIRMN, THEN ON TRACK 281.98 TO TYGGR, THENCE...

TAKEOFF RWY 18R: CLIMB ON HEADING 176.25 TO INTERCEPT COURSE 192.00 TO BPARK, THEN ON TRACK 254.87 TO CROSS YAMEL AT OR ABOVE 5000 AND AT OR BELOW 240 KIAS, THEN ON TRACK 270.17 TO FIRMN, THEN ON TRACK 281.98 TO TYGGR, THENCE...

TAKEOFF RWY 35C: CLIMB ON HEADING 356.26 TO INTERCEPT COURSE 346.41 TO CROSS HAZKL AT OR ABOVE 5000 AND AT OR BELOW 240 KIAS, 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 ON HEADING 356.26 TO INTERCEPT COURSE 347.71 TO CROSS HAZKL AT OR ABOVE 5000 AND AT OR BELOW 240 KIAS, 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 ON HEADING 356.25 TO 1120, THEN DIRECT HAZKL TO CROSS AT OR ABOVE 5000 AT OR BELOW 240 KIAS, 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 ON HEADING 356.25 TO 1120, THEN DIRECT HAZKL TO CROSS AT OR ABOVE 5000 AT OR BELOW 240 KIAS, THEN ON TRACK 277.02 TO TULUY, THEN ON TRACK 255.43 TO HUNNT, THEN ON TRACK 242.16 TO TYGGR, THENCE ...

...THENCE ON TRACK 287.31 TO DBLSS, THEN ON TRACK 287.18 TO EZKAM, THEN ON TRACK 286.85 TO HRPER, THEN ON (TRANSITION). MAINTAIN 10000, EXPECT FILED ALTITUDE TEN MINUTES AFTER DEPARTURE.

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

...THENCE ON TRACK 287.31 TO DBLSS, THEN ON TRACK 287.18 TO EZKAM, THEN ON TRACK 286.85 TO HRPER, THEN ON (TRANSITION). MAINTAIN 5000, EXPECT FILED ALTITUDE TEN 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>
HULZE	HRPER4.HULZE	HRPER	HULZE	TRACK 284.46	37.21	10000	3100	

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED

PROCEDURAL DATA NOTES:

NOTE: FOR USE BY TURBOJETS ONLY.

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

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

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



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HRPER	FOUR	HRPER4.HRPER	THREE	02/04/2016	

REQUIRED EFFECTIVE DATE

ROUTINE

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:**ZFW, DFW ATCT, REGIONAL APP CON, AMGR

CHANGES - REASONS:

1. DP ROUTE DESCRIPTION: AMENDED TAKEOFF RWY 17C, 17R, AND 18R YAMEL CROSSING FROM "CROSS YAMEL AT OR ABOVE 5000" TO "CROSS YAMEL AT OR ABOVE 5000 AND AT OR BELOW 240 KIAS" - TO ANNOTATE AIRSPEED
2. DP ROUTE DESCRIPTION: RWY 18L AMENDED INTERCEPT COURSE TO BPARK FROM "192.50" TO "192.52" AND AMENDED YAMEL CROSSING FROM " CROSS YAMEL AT OR ABOVE 5000" TO "CROSS YAMEL AT OR ABOVE 5000 AND AT OR BELOW 240 KIAS" - ADJUSTED COURSE FOR MINIMUM LEG LENGTH REQUIREMENT AND YAMEL AIRSPEED RESTRICTION.
3. DP ROUTE DESCRIPTION: RWY 35C AMENDED FROM " 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 244.87 TO TYGGR, THENCE..." TO "CLIMB ON HEADING 356.26 TO INTERCEPT COURSE 346.41 TO CROSS HAZKL AT OR ABOVE 5000 AND AT OR BELOW 240 KIAS, THEN ON TRACK 277.02 TO TULUY, THEN ON TRACK 255.43 TO HUNNT, THEN ON TRACK 242.16 TO TYGGR, THENCE ..." - ADJUSTED HEADING TO HAZKL FOR MINIMUM LEG LENGTH REQUIREMENT, ADDED HAZKL AIRSPEED RESTRICTION, AND TRACK TO HUNNT ADDED TO MATCH PUBLISHED TPP PER FPT COORDINATION.
4. DP ROUTE DESCRIPTION: AMENDED TAKEOFF RWY 35L, 36L, 36R HAZKL CROSSING FROM " CROSS HAZKL AT OR ABOVE 5000" TO "CROSS HAZKL AT OR ABOVE 5000 AND AT OR BELOW 240 KIAS" AND ADDED INSTRUCTIONS "THEN ON TRACK 255.43 TO HUNNT" BETWEEN TULUY AND TYGGR. - ADDED HAZKL AIRSPEED RESTRICTION AND TRACK TO HUNNT ADDED TO MATCH PUBLISHED TPP PER FPT COORDINATION.
5. DP ROUTE DESCRIPTION: AMENDED COMMON ROUTE COURSE FROM " ...THEN ON TRACK 287.31 TO DBLSS, THEN ON TRACK 287.18 TO HRPER, THEN ON (TRANSITION)." TO "...THENCE ON TRACK 287.31 TO DBLSS, THEN ON TRACK 287.18 TO EZKAM, THEN ON TRACK 286.85 TO HRPER, THEN ON (TRANSITION)." - ADDED EZKAM PER ATC FOR AIRCRAFT OPERATIONS.
6. PBN REQUIREMENT NOTES: ADDED "RNAV 1 - DME/DME/IRU OR GPS" AND REMOVED TWO NOTES "DME/DME/IRU OR GPS REQUIRED" AND "RNAV 1" FROM PROCEDURAL DATA NOTES. - IAW 8260.46K APPENDIX E, SECTION 1, 2E.
7. EQUIPMENT REQUIREMENT NOTES: RELOCATED "RADAR REQUIRED" FROM PROCEDURAL DATA NOTES. - IAW 8260.46K APPENDIX E, SECTION 1, 2F.
8. TAKEOFF OBSTACLE NOTES: REMOVED "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." AND ADDED "SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)." - IAW 8260.46K APPENDIX E, SECTION 1, 2I.
9. MSA: ADD "MSA FROM DFW, 3600." - IAW IAW 8260.46K APPENDIX E, SECTION 1, 2K.
10. ADDITIONAL FLIGHT DATA: REMOVED "CHART: MEA/MOCA FROM TYGGR TO DBLSS 10000/3600, FROM DBLSS TO HRPER 10000/2900" AND "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), AND MINIMUM ALTITUDE - 9000." - NO LONGER IN CRITERIA.
11. ADDITIONAL FLIGHT DATA: ADDED "WAIVER ON FILE TO NOT CHART IF ALTITUDE AT THE IF FOR RADAR VECTOR (RV) DEPARTURES." - DUE TO HRPER FOUR CONSTRUCTION.
12. REMARKS: ADDED "PROCEDURE USES CG OF 500 FT/NM TO 1120 FOR LNAV ENGAGEMENT FOR ALL RWYS EXCEPT FOR 31L AND 31R, FOR AIRCRAFT TRAFFIC." - TO REFLECT CURRENT PROCEDURE DESIGN.

QUALITY
23
CHECKED

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

DP NAME				NUMBER		DP COMPUTER CODE		SUPERSEDED NUMBER		DATED		ACTUAL EFFECTIVE DATE	
HRPER				FOUR		HRPER4.HRPER		THREE		02/04/2016			
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS				
RW17C (AER)	325456.54N/0970133.51W	N		-	-	-							
-	325136.31N/0970134.58W	-	-	VI	180.26	3.33			CG 500 FT/NM TO 1120.				
BPARK	324631.76N/0970451.51W	Y	FB	CF	208.62	5.77							
YAMEL	324555.70N/0970828.05W	Y	FB	TF	258.87	3.10	AT/ABOVE 5000	AT/BELOW 240K					
FIRMN	324617.77N/0971428.77W	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	-	-	-	-							
-	325136.33N/0970148.65W	-	-	VI	180.26	3.33			CG 500 FT/NM TO 1120.				
BPARK	324631.76N/0970451.51W	Y	FB	CF	206.87	5.68							
YAMEL	324555.70N/0970828.05W	Y	FB	TF	258.87	3.10	AT/ABOVE 5000	AT/BELOW 240K					
FIRMN	324617.77N/0971428.77W	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	-	-	-	-							
-	325138.62N/0970303.67W	-	-	VI	180.25	3.30			CG 500 FT/NM TO 1120.				
BPARK	324631.76N/0970451.51W	Y	FB	CF	196.52	5.32							
YAMEL	324555.70N/0970828.05W	Y	FB	TF	258.87	3.10	AT/ABOVE 5000	AT/BELOW 240K					
FIRMN	324617.77N/0971428.77W	Y	FB	TF	274.17	5.08							
TYGGR	325322.14N/0974359.79W	Y	FB	TF	285.98	25.85							
RW18R (AER)	325456.93N/0970316.72W	N	-	-	-	-							

QUALITY
23

QUALITY
23
CHECKED

<u>DP NAME</u>		<u>NUMBER</u>		<u>DP COMPUTER CODE</u>		<u>SUPERSEDED NUMBER</u>		<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
HRPER		FOUR		HRPER4.HRPER		THREE		02/04/2016	
<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>
-	325107.32N/0970317.90W	-	-	VI	180.25	3.82			CG 500 FT/NM TO 1120.
BPARK	324631.76N/0970451.51W	Y	FB	CF	196.00	4.77			
YAMEL	324555.70N/0970828.05W	Y	FB	TF	258.87	3.10	AT/ABOVE 5000	AT/BELOW 240K	
FIRMN	324617.77N/0971428.77W	Y	FB	TF	274.17	5.08			
TYGGR	325322.14N/0974359.79W	Y	FB	TF	285.98	25.85			
RW31L (AER)	325324.97N/0970347.80W	N	-	-	-	-			
-	-	-	-	VM	319.06	-			
TYGGR	325322.14N/0974359.79W	Y	FB	DF	-	-			
RW31R (AER)	325341.93N/0970003.04W	-	-	-	-	-			
-	-	-	-	VM	315.28	-			
TYGGR	325322.14N/0974359.79W	Y	FB	DF	-	-			
RW35C (AER)	325243.96N/0970134.22W	N	-	-	-	-			
-	325603.77N/0970133.15W	-	-	VI	000.26	3.32			CG 500 FT/NM TO 1120.
HAZKL	330415.04N/0970311.58W	Y	FB	CF	350.41	8.29	AT/ABOVE 5000	AT/BELOW 240K	
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	-	-	-	-			
-	325606.72N/0970147.21W	-	-	VI	000.26	3.37			CG 500 FT/NM TO 1120.
HAZKL	330415.04N/0970311.58W	Y	FB	CF	351.71	8.21	AT/ABOVE 5000	AT/BELOW 240K	



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HRPER		FOUR		HRPER4.HRPER		THREE		02/04/2016	
<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>
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	-	-	-	-			
1120 MSL	-	-	-	VA	000.25	-	AT/ABOVE 1120		CG 500 FT/NM TO 1120.
HAZKL	330415.04N/0970311.58W	Y	FB	DF	-	-	AT/ABOVE 5000	AT/BELOW 240K	
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	-	-	-	-			
1120 MSL	-	-	-	VA	000.25	-	AT/ABOVE 1120		CG 500 FT/NM TO 1120.
HAZKL	330415.04N/0970311.58W	Y	FB	DF	-	-	AT/ABOVE 5000	AT/BELOW 240K	
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			
TYGGR	325322.14N/0974359.79W	Y	-	IF	-	-			
DBLSS	330306.71N/0981350.16W	Y	FB	TF	291.31	26.92			
EZKAM	331451.01N/0985010.04W	Y	FB	TF	291.18	32.68			
HRPER	332746.50N/0993100.93W	Y	FB	TF	290.85	36.57			
HRPER	332746.50N/0993100.93W	Y	-	IF	-	-			HRPER4.HULZE



<u>DP NAME</u>		<u>NUMBER</u>		<u>DP COMPUTER CODE</u>		<u>SUPERSEDED NUMBER</u>		<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
HRPER		FOUR		HRPER4.HRPER		THREE		02/04/2016	
<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>
HULZE	333927.59N/1001318.11W	Y	FB	TF	288.46	37.21			

