

**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SUPERSEDED NUMBER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>EFFECTIVE DATE</u>
ZACHH	THREE	ZACHH3.ZACHH	TWO	02/04/2016	
<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DP ROUTE DESCRIPTION:

TAKEOFF RWY 17C: CLIMB HEADING 176.26 TO INTERCEPT COURSE 157.17 TO SPERA, THEN ON TRACK 106.51 TO CROSS JGIRL AT OR ABOVE 5000, THEN ON TRACK 083.65 TO CORTS, THEN ON TRACK 057.27 TO ZERLU, THENCE...

TAKEOFF RWY 17R: CLIMB HEADING 176.26 TO INTERCEPT COURSE 155.02 TO SPERA, THEN ON TRACK 106.51 TO CROSS JGIRL AT OR ABOVE 5000, THEN ON TRACK 083.65 TO CORTS, THEN ON TRACK 057.27 TO ZERLU, THENCE...

TAKEOFF RWY 18L: CLIMB HEADING 176.25 TO INTERCEPT COURSE 144.78 TO SPERA, THEN ON TRACK 106.51 TO CROSS JGIRL AT OR ABOVE 5000, THEN ON TRACK 083.65 TO CORTS, THEN ON TRACK 057.27 TO ZERLU, THENCE...

TAKEOFF RWY 18R: CLIMB HEADING 176.25 TO INTERCEPT COURSE 143.10 TO SPERA, THEN ON TRACK 106.51 TO CROSS JGIRL AT OR ABOVE 5000, THEN ON TRACK 083.65 TO CORTS, THEN ON TRACK 057.27 TO ZERLU, THENCE...

TAKEOFF RWY 35C: CLIMB HEADING 356.26 TO 1120, THEN DIRECT TO CROSS CUZEN AT OR ABOVE 5000, THEN ON TRACK 081.85 TO CROSS FEZTR AT OR ABOVE 7000, THEN ON TRACK 095.32 TO ZERLU, THENCE...

TAKEOFF RWY 35L: CLIMB HEADING 356.26 TO 1120, THEN DIRECT TO CROSS CUZEN AT OR ABOVE 5000, THEN ON TRACK 081.85 TO CROSS FEZTR AT OR ABOVE 7000, THEN ON TRACK 095.32 TO ZERLU, THENCE...

TAKEOFF RWY 36L: CLIMB HEADING 356.25 TO INTERCEPT COURSE 005.75 TO CROSS CUZEN AT OR ABOVE 5000, THEN ON TRACK 081.85 TO CROSS FEZTR AT OR ABOVE 7000, THEN ON TRACK 095.32 TO ZERLU, THENCE...

TAKEOFF RWY 36R: CLIMB HEADING 356.25 TO INTERCEPT COURSE 004.49 TO CROSS CUZEN AT OR ABOVE 5000, THEN ON TRACK 081.85 TO CROSS FEZTR AT OR ABOVE 7000, THEN ON TRACK 095.32 TO ZERLU, THENCE...

...ON TRACK 063.12 TO SWDIA, THEN ON TRACK 063.45 TO ZACHH, THEN ON (TRANSITION) MAINTAIN 10000. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

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

...ON TRACK 063.12 TO SWDIA, THEN ON TRACK 063.45 TO ZACHH, THEN ON (TRANSITION) MAINTAIN 5000. 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>
BSKAT	ZACHH3.BSKAT	ZACHH	BSKAT	TRACK 056.11	39.63	10000	1900	

PROCEDURAL DATA NOTES:

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: RNAV 1.

NOTE: FOR USE BY TURBOJET AIRCRAFT ONLY.

NOTE: NON-RNAV CAPABLE PROPS: FILE AND EXPECT WYLIE OR HUBBARD DEPARTURE.

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

NOTE: RADAR REQUIRED.

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.



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ZACHH	THREE	ZACHH3.ZACHH	TWO	02/04/2016	

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/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 ZERLU TO SWDIA 10000/2100, FROM SWDIA TO ZACHH 10000/2100.
CHART: TOP ALTITUDE RWY 31L/31R: 5000; RWY 17C/17R/18L/18R/35L/35C/36L/36R: 10000.

CHART SPEED ICON MAXIMUM SPEED AT JGIRL 240 KIAS.
CHART SPEED ICON MAXIMUM SPEED AT CUZEN 240 KIAS.

PILOT NAVIGATION AREA:

7 NM ARC CENTERED ON ZERLU (IF), CW
FROM: POINT A (BEARING 018 DEGREES TO ZERLU)
TO: POINT B (BEARING 108 DEGREES TO ZERLU)
MINIMUM ALTITUDE - 9000

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
DALLAS-FORT WORTH INTL	DALLAS-FORT WORTH	TX

COMMUNICATIONS:

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

FIXES AND/OR NAVAIDS:

CHART: HANUH, LYING, THHOR, JJANE, TRRCH, JAYXX, FORCK, MRSSH, TRYTN.

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.
THIS IS A MINOR AMENDMENT AND DOES NOT QUALIFY AS A PERIODIC REVIEW.

QUALITY
3
CHECKED

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ZACHH	THREE	ZACHH3.ZACHH	TWO	02/04/2016	

FLIGHT INSPECTED BY:

FLIGHT INSPECTION REVIEW NOT REQUIRED -
PROCESSED IAW FICO (AJW-333) MEMO, MAY 30, 2017.

Digitally signed by
ROBERT G HAMILTON
Dec 12, 2017

OFFICE SYMBOL:

FICO

DATE:

06/16/2015

DEVELOPED BY:

LUCAS MCCLOUD

Digitally signed by
LUCAS MCCLOUD
Oct 04, 2017

OFFICE SYMBOL:

AJV-5422

DATE:

09/20/2017

APPROVED BY:

JULIE MORGAN

Digitally signed by
ROBERT G HAMILTON
Dec 12, 2017

OFFICE SYMBOL:

AJV-5420

DATE:

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	<u>NBAA</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

OTHER:

ZFW, DFW ATCT, REGIONAL APP CON, AMGR

CHANGES - REASONS:

1. CHANGED FIX NAME NAVYE TO SPERA THROUGHOUT FORMS - ATC REQUEST

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**FEDERAL AVIATION ADMINISTRATION
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DEPARTURE (DATA RECORD)**

DP NAME		NUMBER		DP COMPUTER CODE		SUPERSEDED NUMBER		DATED		EFFECTIVE DATE	
ZACHH		THREE		ZACHH3.ZACHH		TWO		02/04/2016			
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.		
SPERA	324657.75N/0965942.05W	Y	FB	CF	161.17	4.90			RECOMMENDED NAVAID: PGO VORTAC		
JGIRL	324554.36N/0965621.63W	Y	FB	TF	110.51	3.01	AT/ABOVE 5000	AT/BELOW 240K			
CORTS	324607.65N/0964953.59W	Y	FB	TF	087.65	5.46					
ZERLU	325953.11N/0961958.89W	Y	FB	TF	061.27	28.69					
RW17R (AER)	325456.60N/0970147.58W	N	-	-	-	-					
	325136.69N/0970148.65W	-	-	VI	180.26	3.33			CG 500 FT/NM TO 1120.		
SPERA	324657.75N/0965942.05W	Y	FB	CF	159.02	4.97			RECOMMENDED NAVAID: PGO VORTAC		
JGIRL	324554.36N/0965621.63W	Y	FB	TF	110.51	3.01	AT/ABOVE 5000	AT/BELOW 240K			
CORTS	324607.65N/0964953.59W	Y	FB	TF	087.65	5.46					
ZERLU	325953.11N/0961958.89W	Y	FB	TF	061.27	28.69					
RW18L (AER)	325456.88N/0970302.65W	N	-	-	-	-					
	325138.77N/0970303.67W	-	-	VI	180.25	3.30			CG 500 FT/NM TO 1120.		
SPERA	324657.75N/0965942.05W	Y	FB	CF	148.78	5.47			RECOMMENDED NAVAID: PGO VORTAC		
JGIRL	324554.36N/0965621.63W	Y	FB	TF	110.51	3.01	AT/ABOVE 5000	AT/BELOW 240K			
CORTS	324607.65N/0964953.59W	Y	FB	TF	087.65	5.46					
ZERLU	325953.11N/0961958.89W	Y	FB	TF	061.27	28.69					
QUALITY 3 CHECKED											

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ZACHH		THREE		ZACHH3.ZACHH		TWO		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>
RW18R (AER)	325456.93N/0970316.71W	N	-	-	-	-			
	325139.42N/0970317.74W	-	-	VI	180.25	3.29			CG 500 FT/NM TO 1120.
SPERA	324657.75N/0965942.05W	Y	FB	CF	147.10	5.58			RECOMMENDED NAVAID: PGO VORTAC
JGIRL	324554.36N/0965621.63W	Y	FB	TF	110.51	3.01	AT/ABOVE 5000	AT/BELOW 240K	
CORTS	324607.65N/0964953.59W	Y	FB	TF	087.65	5.46			
ZERLU	325953.11N/0961958.89W	Y	FB	TF	061.27	28.69			
RW31L (AER)	325324.97N/0970347.79W	N	-	-	-	-			
		-	-	VM	319.06	-			
ZERLU	325953.11N/0961958.89W	Y	FB	DF	-	-			
RW31R (AER)	325341.93N/0970003.04W	N	-	-	-	-			
		-	-	VM	315.28	-			
ZERLU	325953.11N/0961958.89W	Y	FB	DF	-	-			
RW35C (AER)	325243.96N/0970134.22W	N	-	-	-	-			
1120 MSL		-	-	VA	000.26	-			CG 500 FT/NM TO 1120.
CUZEN	330439.55N/0970130.12W	Y	FB	DF	-	-	AT/ABOVE 5000	AT/BELOW 240K	
FEZTR	330458.85N/0965612.04W	Y	FB	TF	085.85	4.47	AT/ABOVE 7000		
ZERLU	325953.11N/0961958.89W	Y	FB	TF	099.32	30.87			

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ZACHH		THREE		ZACHH3.ZACHH		TWO		02/04/2016			
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS		
RW35L (AER)	325244.02N/0970148.29W	N	-	-	-	-					
1120 MSL		-	-	VA	000.26	-			CG 500 FT/NM TO 1120.		
CUZEN	330439.55N/0970130.12W	Y	FB	DF	-	-	AT/ABOVE 5000	AT/BELOW 240K			
FEZTR	330458.85N/0965612.04W	Y	FB	TF	085.85	4.47	AT/ABOVE 7000				
ZERLU	325953.11N/0961958.89W	Y	FB	TF	099.32	30.87					
RW36L (AER)	325244.35N/0970317.40W	N	-	-	-	-					
	325558.85N/0970316.39W	-	-	VI	000.25	3.24			CG 500 FT/NM TO 1120.		
CUZEN	330439.55N/0970130.12W	Y	FB	CF	009.75	8.79	AT/ABOVE 5000	AT/BELOW 240K	RECOMMENDED NAVAID: PGO VORTAC		
FEZTR	330458.85N/0965612.04W	Y	FB	TF	085.85	4.47	AT/ABOVE 7000				
ZERLU	325953.11N/0961958.89W	Y	FB	TF	099.32	30.87					
RW36R (AER)	325244.30N/0970303.33W	N	-	-	-	-					
	325559.40N/0970302.33W	-	-	VI	000.25	3.25			CG 500 FT/NM TO 1120.		
CUZEN	330439.55N/0970130.12W	Y	FB	CF	008.49	8.75	AT/ABOVE 5000	AT/BELOW 240K	RECOMMENDED NAVAID: PGO VORTAC		
FEZTR	330458.85N/0965612.04W	Y	FB	TF	085.85	4.47	AT/ABOVE 7000				
ZERLU	325953.11N/0961958.89W	Y	FB	TF	099.32	30.87					
ZERLU	325953.11N/0961958.89W	Y	-	IF	-	-					
SWDIA	331022.97N/0955014.24W	Y	FB	TF	067.12	27.10					
ZACHH	334250.88N/0941456.02W	Y	FB	TF	067.45	86.08					
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<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>		
ZACHH	334250.88N/0941456.02W	Y	-	IF	-	-			ZACHH3.BSKAT		
BSKAT	340230.74N/0933335.42W	Y	FB	TF	060.11	39.63					

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