

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
FLYZA	FIVE	FLYZA5.FLYZA	FOUR	12/10/2015	15 SEP 2016

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 8L/8R: CLIMB HEADING 086.94 TO 600, EXPECT RADAR VECTORS TO CROSS BOTLL AT OR BELOW 5000, THENCE...

TAKEOFF RWY 9: CLIMB HEADING 086.95 TO 600, EXPECT RADAR VECTORS TO CROSS BOTLL AT OR BELOW 5000, THENCE...

TAKEOFF RWY 15L: CLIMB HEADING 148.96 TO 600, THEN LEFT TURN DIRECT TO CROSS TTAPS AT OR BELOW 4000, THEN ON TRACK 122.52 TO CROSS BOTLL AT OR BELOW 5000, THENCE...

TAKEOFF RWY 15R: CLIMB HEADING 148.95 TO 600, THEN LEFT TURN DIRECT TO CROSS TTAPS AT OR BELOW 4000, THEN ON TRACK 122.52 TO CROSS BOTLL AT OR BELOW 5000, THENCE...

TAKEOFF RWY 26L/26R: CLIMB HEADING 266.96 TO 600, EXPECT RADAR VECTORS TO CROSS BOTLL AT OR BELOW 5000, THENCE...

TAKEOFF RWY 27: CLIMB HEADING 266.97 TO 600, EXPECT RADAR VECTORS TO CROSS BOTLL AT OR BELOW 5000, THENCE...

TAKEOFF RWY 33L/33R: CLIMB HEADING 328.96 TO 600, EXPECT RADAR VECTORS TO CROSS BOTLL AT OR BELOW 5000, THENCE...

...ON TRACK 139.49 TO CROSS FLYZA AT OR ABOVE 7000, THEN ON (TRANSITION). MAINTAIN 16000. 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
ANKRR	FLYZA5.ANKRR	FLYZA	PPALE	TRACK 156.68	9.05	5800	1700	PPALE AT/ABOVE 11000
			VUH VOR/DME	TRACK 156.71	21.69	10000	1600	
			ANKRR	TRACK 133.73	129.59	12000	1400	
KELPP	FLYZA5.KELPP	FLYZA	PPALE	TRACK 156.68	9.05	5800	1700	PPALE AT/ABOVE 11000
			VUH VOR/DME	TRACK 156.71	21.69	10000	1600	
			KELPP	TRACK 125.31	199.04	12000	1400	
MUSYL	FLYZA5.MUSYL	FLYZA	PPALE	TRACK 156.68	9.05	5800	1700	PPALE AT/ABOVE 11000
			VUH VOR/DME	TRACK 156.71	21.69	10000	1600	
			MUSYL	TRACK 146.18	76.44	12000	1400	

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: RADAR REQUIRED.

NOTE: RNAV 1.

NOTE: GPS REQUIRED.

TAKEOFF MINIMUMS:

RWY 8L, 8R, 9, 15L, 15R, 26L, 26R, 27, 33L, 33R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 800.

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TAKEOFF OBSTACLES NOTES:

NOTE: RWY 8L, TREE 2866 FT FROM DER, 921 FT LEFT OF CENTERLINE, 107 FT AGL/201 FT MSL. MULTIPLE TREES BEGINNING 2750 FT FROM DER, 106 FT RIGHT OF CENTERLINE, UP TO 80 FT AGL/174 FT MSL.

NOTE: RWY 15L, MULTIPLE TREES BEGINNING 2638 FT FROM DER, 758 FT RIGHT OF CENTERLINE, UP TO 76 FT AGL/160 FT MSL.

NOTE: RWY 15R, TOWER 1431 FT FROM DER, 591 FT LEFT OF CENTERLINE, 48 FT AGL/133 FT MSL. ANTENNA ON GLIDESLOPE 1469 FT FROM DER, 621 FT LEFT OF CENTERLINE, 49 FT AGL/133 FT MSL.

NOTE: RWY 26R, POLE 950 FT FROM DER, 660 FT RIGHT OF CENTERLINE, 40 FT AGL/129 FT MSL.

NOTE: RWY 33R, TREE 2868 FT FROM DER, 1027 FT RIGHT OF CENTERLINE, 73 FT AGL/172 FT MSL.

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

REFERENCE MAG VAR: KIAH 3E EPOCH YR: 2015. DME/DME ASSESSMENT: SAT (RNP 2.0)

GEORGE BUSH INTERCONTINENTAL (KIAH) – CHART: TOP ALTITUDE 16000

CHART: MEA/MOCA FROM BOTLL TO FLYZA, 4000/1700.

PILOT NAVIGATION AREA:

7NM ARC CENTERED ON BOTLL (IF), CW

FROM: POINT A (BEARING 094 DEGREES TO BOTLL)

TO: POINT B (BEARING 184 DEGREES TO BOTLL)

MINIMUM ALTITUDE – 3000

AIRPORTS SERVED:

GEORGE BUSH INTERCONTINENTAL/HOUSTON

HOUSTON/TX

COMMUNICATIONS:

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

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FIXES AND/OR NAVAIDS:

REMARKS:

TOPOGRAPHICAL MAPS NOT AVAILABLE SOUTH OF N28°00'00".

FLYZA FIVE AMENDEMENT DOES NOT SATISFY PERIODIC REVIEW REQUIREMENTS.

CHANGES:

1. CHANGED VUH VORTAC TO VUH VOR/DME.
2. ADDED REMARK "FLYZA FIVE AMENDEMENT DOES NOT SATISFY PERIODIC REVIEW REQUIREMENTS."

REASONS:

1. TACAN ANTENNA REPLACED WITH DME.
2. MINOR AMENDMENT DOES NOT QUALIFY AS A PERIODIC REVIEW.

DEPARTURE (DATA RECORD)

DP Name		Number		DP Computer Code			Superseded Number		Dated	Effective Date
FLYZA		FIVE		FLYZA5.FLYZA			FOUR		12/10/2015	15 SEP 2016
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS	
RW08L (AER)	300025.78N/0952131.65W	N	-	-	-	-				
600 MSL		-	-	VA	089.94	-			CG 500 FT/NM TO 800	
		-	-	VM	089.94	-				
BOTLL	294925.54N/0950806.00W	Y	FB	DF	-	-	AT/BELOW 5000			
RW08R (AER)	295936.30N/0952117.87W	N	-	-	-	-				
600MSL		-	-	VA	089.94	-			CG 500FT/NM TO 800	
		-	-	VM	089.94	-				
BOTLL	294925.54N/0950806.00W	Y	FB	DF	-	-	AT/BELOW 5000			
RW09 (AER)	295839.33N/0952002.79W	N	-	-	-	-				
600 MSL		-	-	VA	089.95	-			CG 500 FT/NM TO 800	
		-	-	VM	089.95	-				
BOTLL	294925.54N/0950806.00W	Y	FB	DF	-	-	AT/BELOW 5000			
RW15L (AER)	295916.40N/0952128.33W	N	-	-	-	-				
600 MSL		-	-	VA	151.96	-			CG 500 FT/NM TO 800	
TTAPS	295318.83N/0951420.51W	Y	FB	DF	-	-	AT/BELOW 4000		LEFT TURN	
BOTLL	294925.54N/0950806.00W	Y	FB	TF	125.52	6.67	AT/BELOW 5000			
RW15R (AER)	295916.10N/0952141.03W	N	-	-	-	-				
600 MSL		-	-	VA	151.95	-			CG 500 FT/NM TO 800	
TTAPS	295318.83N/0951420.51W	Y	FB	DF	-	-	AT/BELOW 4000		LEFT TURN	
BOTLL	294925.54N/0950806.00W	Y	FB	TF	125.52	6.67	AT/BELOW 5000			
RW26L (AER)	295936.38N/0951930.95W	N	-	-	-	-				
600 MSL		-	-	VA	269.96	-			CG 500FT/NM TO 800	
		-	-	VM	269.96	-				
BOTLL	294925.54N/0950806.00W	Y	FB	DF	-	-	AT/BELOW 5000			
RW26R (AER)	300025.86N/0951949.29W	N	-	-	-	-				
600 MSL		-	-	VA	269.96	-			CG 500FT/NM TO 800	

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS	
BOTLL	294925.54N/0950806.00W	-	-	VM	269.96	-				
		Y	FB	DF	-	-	AT/BELOW 5000			
RW27 (AER)	295839.41N/0951809.09W	N	-	-	-	-				
600 MSL		-	-	VA	269.97	-			CG 500 FT TO 800	
		-	-	VM	269.97	-				
BOTLL	294925.54N/0950806.00W	Y	FB	DF	-	-	AT/BELOW 5000			
RW33L (AER)	295748.75N/0952047.58W	N	-	-	-	-				
600 MSL		-	-	VA	331.96	-			CG 500FT/NM TO 800	
		-	-	VM	331.96	-				
BOTLL	294925.54N/0950806.00W	Y	FB	DF	-	-	AT/BELOW 5000			
RW33R (AER)	295731.55N/0952024.19W	N	-	-	-	-				
600 MSL		-	-	VA	331.96	-			CG 500FT/NM TO 800	
		-	-	VM	331.96	-				
BOTLL	294925.54N/0950806.00W	Y	FB	DF	-	-	AT/BELOW 5000			
BOTLL	294925.54N/0950806.00W	Y	-	IF	-	-	AT/BELOW 5000			
FLYZA	294503.98N/0950415.93W	Y	FB	TF	142.49	5.48	AT/ABOVE 7000			
FLYZA	294503.98N/0950415.93W	Y	-	IF	-	-	AT/ABOVE 7000		FLYZA5.ANKRR	
PPALE	293633.46N/0950039.65W	Y	FB	TF	159.69	9.05	AT/ABOVE 11000			
VUH VOR/DME	291609.60N/0945203.81W	Y	FB	TF	159.71	21.69				
ANKRR	274055.56N/0931201.39W	Y	FB	TF	136.73	129.59				
FLYZA	294503.98N/0950415.93W	Y	-	IF	-	-	AT/ABOVE 7000		ALYZA5.KELPP	
PPALE	293633.46N/0950039.65W	Y	FB	TF	159.68	9.05	AT/ABOVE 11000			
VUH VOR/DME	291609.60N/0945203.81W	Y	FB	TF	159.71	21.69				
KELPP	271032.13N/0915657.34W	Y	FB	TF	128.31	199.04				

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS	
FLYZA	294503.98N/0950415.93W	Y	-	IF	-	-	AT/ABOVE 7000		FLYZA5.MUSYL	
PPALE	293633.46N/0950039.65W	Y	FB	TF	159.68	9.05	AT/ABOVE 11000			
VUH VOR/DME	291609.60N/0945203.81W	Y	FB	TF	159.71	21.69				
MUSYL	281013.55N/0940745.14W	Y	FB	TF	149.18	76.44				