

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.
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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BNDTO	FIVE	BNDTO5.BNDTO	FOUR	6/25/2015	10 DEC 2015

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 15L: CLIMB HEADING 148.96 TO 600, THEN RIGHT TURN DIRECT TO CROSS SCAMM AT OR BELOW 5000, THEN ON TRACK 276.90 TO SHAAK, THENCE...

TAKEOFF RWY 15R: CLIMB HEADING 148.95 TO 600, THEN RIGHT TURN DIRECT TO CROSS SCAMM AT OR BELOW 5000, THEN ON TRACK 276.90 TO SHAAK, THENCE...

TAKEOFF RWY 26L/26R: CLIMB HEADING 266.96 TO 600, EXPECT RADAR VECTORS TO SHAAK, THENCE...

TAKEOFF RWY 27: CLIMB HEADING 266.97 TO 600, EXPECT RADAR VECTORS TO SHAAK, THENCE...

TAKEOFF RWY 33L/33R: CLIMB HEADING 328.96 TO 600, EXPECT RADAR VECTORS TO SHAAK, THENCE...

...ON TRACK 276.86 TO BNDTO, 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
CRGER	BNDTO5.CRGER	BNDTO	CUZZZ	TRACK 281.23	22.90	8100	1800	CUZZZ AT/ABOVE 13000
			ZUUUU	TRACK 277.14	9.30	9900	1700	
			PUFER	TRACK 277.06	44.15	12000	2100	
			PSTUR	TRACK 276.78	34.30	12000	2100	
			CRGER	TRACK 280.77	32.91	12000	3100	
MNURE	BNDTO5.MNURE	BNDTO	FFOAM	TRACK 257.16	17.16	7000	1600	FFOAM AT/ABOVE 13000
			BOCCK	TRACK 269.42	12.85	9500	1600	
			MNURE	TRACK 277.31	18.98	12000	2100	
SAN ANTONIO	BNDTO5.SAT	BNDTO	FFOAM	TRACK 257.16	17.16	7000	1600	FFOAM AT/ABOVE 13000
			BOCCK	TRACK 269.42	12.85	9500	1600	
			MNURE	TRACK 277.31	18.98	12000	2100	
			MARCS	TRACK 262.50	67.76	12000	2600	
			SAT VORTAC	TRACK 241.29	34.82	12000	2800	
WAILN	BNDTO5.WAILN	BNDTO	BAAKE	TRACK 239.94	17.12	7000	1800	BAAKE AT/ABOVE 13000
			WEEED	TRACK 250.00	13.80	9700	1700	
			WAILN	TRACK 271.98	20.41	11700	1800	



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PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: RADAR REQUIRED.

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: RNAV 1.

NOTE: FOR USE DURING WEST FLOW AT IAH, FOR EAST FLOW FILE THE PITZZ DEPARTURE.

TAKEOFF MINIMUMS:

RWY 15L, 15R, 26L, 26R, 27, 33L, 33R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1200.

TAKEOFF OBSTACLES NOTES:

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 SHAAK TO BNDTO, 3600/1600.

PILOT NAVIGATION AREA:

7NM ARC CENTERED ON SHAAK (IF), CW

FROM: POINT A (BEARING 232 DEGREES TO SHAAK)

TO: POINT B (BEARING 322 DEGREES TO SHAAK)

MINIMUM ALTITUDE – 3000



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AIRPORTS SERVED:

GEORGE BUSH INTERCONTINENTAL/HOUSTON

HOUSTON, TX

COMMUNICATIONS:

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

FIXES AND/OR NAVAIDS:



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CHANGES:

1. CHANGED DP ROUTE DESCRIPTION FOR RWYS 15L/R: CHANGED ALTITUDE FROM AT OR ABOVE 600 TO TO 600.

REASONS:

1. ATC REQUEST.

9/11/2015: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 6/17/2015.

1. TOP ALTITUDE CHANGED FROM 4000 TO 16000.
2. DP ROUTE DESCRIPTION MAINTAIN ALTITUDE CHANGED FROM 4000 TO 16000.



DEPARTURE (DATA RECORD)

DP Name		Number		DP Computer Code			Superseded Number		Dated	Effective Date
BNDTO		FIVE		BNDTO5.BNDTO			FOUR		06/25/2015	10 DEC 2015
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS	
RW15L (AER)	295916.40N/0952128.33W	N	-	-	-	-	AT/BELOW 5000		CG 500 FT/NM TO 1200 RIGHT TURN	
600 MSL		-	-	VA	151.96	-				
SCAMM	295722.80N/0952954.61W	Y	FB	DF	-	-				
SHAAC	295803.64N/0953423.99W	Y	FB	TF	279.90	3.96				
RW15R (AER)	295916.10N/0952141.03W	N	-	-	-	-	AT/BELOW 5000		CG 500 FT/NM TO 1200 RIGHT TURN	
600 MSL		-	-	VA	151.95	-				
SCAMM	295722.80N/0952954.61W	Y	FB	DF	-	-				
SHAAC	295803.64N/0953423.99W	Y	FB	TF	279.90	3.96				
RW26L (AER)	295936.38N/0951930.95W	N	-	-	-	-			CG 500 FT/NM TO 1200	
600 MSL		-	-	VA	269.96	-				
		-	-	VM	269.96	-				
SHAAC	295803.64N/0953423.99W	Y	FB	DF	-	-				
RW26R (AER)	300025.86N/0951949.29W	N	-	-	-	-			CG 500 FT/NM TO 1200	
600 MSL		-	-	VA	269.96	-				
		-	-	VM	269.96	-				
SHAAC	295803.64N/0953423.99W	Y	FB	DF	-	-				
RW27 (AER)	295839.41N/0951809.09W	N	-	-	-	-			CG 500 FT/NM TO 1200	
600 MSL		-	-	VA	269.97	-				
		-	-	VM	269.97	-				
SHAAC	295803.64N/0953423.99W	Y	FB	DF	-	-				
RW33L (AER)	295748.75N/0952047.58W	N	-	-	-	-			CG 500 FT/NM TO 1200	
600 MSL		-	-	VA	331.96	-				
		-	-	VM	331.96	-				
SHAAC	295803.64N/0953423.99W	Y	FB	DF	-	-				
RW33R (AER)	295731.55N/0952024.19W	N	-	-	-	-			CG 500 FT/NM TO 1200	
600 MSL		-	-	VA	331.96	-				



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BNDTO		FIVE		BNDTO5.BNDTO		FOUR		06/25/2015	10 DEC 2015
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
SHAAC	295803.64N/0953423.99W	-	-	VM	331.96	-			
SHAAC	295803.64N/0953423.99W	Y	FB	DF	-	-			
BNDTO	295838.29N/0953813.36W	Y	-	IF	-	-			
BNDTO	295838.29N/0953813.36W	Y	FB	TF	279.86	3.37			
BNDTO	295838.29N/0953813.36W	Y	-	IF	-	-			BNDTO5.CRGER
CUZZZ	300414.33N/0960348.07W	Y	FB	TF	284.23	22.90	AT/ABOVE 13000		
ZUUUU	300552.42N/0961421.48W	Y	FB	TF	280.14	9.30			
PUFER	301326.48N/0970432.09W	Y	FB	TF	280.06	44.15			
PSTUR	301911.13N/0974335.19W	Y	FB	TF	279.78	34.30			
CRGER	302657.12N/0982034.26W	Y	FB	TF	283.77	32.91			
BNDTO	295838.29N/0953813.36W	Y	-	IF	-	-			BNDTO5.MNURE
FFOAM	295540.52N/0955741.00W	Y	FB	TF	260.16	17.16	AT/ABOVE 13000		
BOCCK	295612.26N/0961227.32W	Y	FB	TF	272.42	12.85			
MNURE	295934.88N/0963357.84W	Y	FB	TF	280.31	18.98			
BNDTO	295838.29N/0953813.36W	Y	-	IF	-	-			BNDTO5.SAT
FFOAM	295540.52N/0955741.00W	Y	FB	TF	260.16	17.16	AT/ABOVE 13000		
BOCCK	295612.26N/0961227.32W	Y	FB	TF	272.42	12.85			
MNURE	295934.88N/0963357.84W	Y	FB	TF	280.31	18.98			
MARCS	295352.04N/0975140.70W	Y	FB	TF	265.50	67.76			
SAT VORTAC	293838.51N/0982740.73W	Y	FB	TF	244.29	34.82			
BNDTO	295838.29N/0953813.36W	Y	-	IF	-	-			BNDTO5.WAILN
BAAKE	295048.68N/0955545.28W	Y	FB	TF	242.94	17.12	AT/ABOVE 13000		
WEEED	294645.14N/0961054.94W	Y	FB	TF	253.00	13.80			
WAILN	294829.63N/0963417.12W	Y	FB	TF	274.98	20.41			

