

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
PTRON	TWO	PTRON2.PTRON	ONE	05/29/2014	18 SEP 2014

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 4: CLIMB HEADING 040.95 TO 560, EXPECT RADAR VECTORS TO SAALT, THENCE...
 TAKEOFF RWY 12L: CLIMB HEADING 130.93 TO 560, EXPECT RADAR VECTORS TO SAALT, THENCE...
 TAKEOFF RWY 12R: CLIMB HEADING 130.95 TO 560, EXPECT RADAR VECTORS TO SAALT, THENCE...
 TAKEOFF RWY 17: CLIMB HEADING 175.94 TO 560, EXPECT RADAR VECTORS TO SAALT, THENCE...
 TAKEOFF RWY 22: CLIMB HEADING 220.96 TO 560, EXPECT RADAR VECTORS TO SAALT, THENCE...
 TAKEOFF RWY 30L: CLIMB HEADING 310.96 TO 560, EXPECT RADAR VECTORS TO SAALT, THENCE...
 TAKEOFF RWY 30R: CLIMB HEADING 310.94 TO 560, EXPECT RADAR VECTORS TO SAALT, THENCE...
 TAKEOFF RWY 35: CLIMB HEADING 355.94 TO 560, EXPECT RADAR VECTORS TO SAALT, THENCE...

...ON TRACK 190.66 TO PTRON, CROSS PTRON AT OR ABOVE 5000, THEN ON (TRANSITION). MAINTAIN 5000, 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
CORPUS CHRISTI	PTRON2.CRP	PTRON	SKUBA	TRACK 241.39	33.62	11100	2200	
		SKUBA	PSX VORTAC	TRACK 223.55	37.41	12000	2600	
		PSX VORTAC	YOMOM	TRACK 221.02	64.42	12000	1800	
		YOMOM	CRP VORTAC	TRACK 249.38	16.51	12000	1500	
WWREN	PTRON2.WWREN	PTRON	JAWNS	TRACK 210.48	38.48	10900	3000	
		JAWNS	WWREN	TRACK 206.01	52.68	12000	2100	
TRUAX	PTRON2.NGP	PTRON	JAWNS	TRACK 210.48	38.48	10900	3000	
		JAWNS	NGP VORTAC	TRACK 228.08	114.85	12000	1700	
PALACIOS	PTRON2.PSX	PTRON	SKUBA	TRACK 241.39	33.62	11100	2200	
		SKUBA	PSX VORTAC	TRACK 223.55	37.41	12000	2600	
YOMOM	PTRON2.YOMOM	PTRON	SKUBA	TRACK 241.39	33.62	11100	2200	
		SKUBA	PSX VORTAC	TRACK 223.55	37.41	12000	2600	
		PSX VORTAC	YOMOM	TRACK 221.02	64.42	12000	1800	

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

PROCEDURAL DATA NOTES:

NOTE: FOR USE BY TURBOJET AND TURBOPROP AIRCRAFT ONLY.

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NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: RADAR REQUIRED.
NOTE: RNAV 1.

TAKEOFF MINIMUMS:

RWY 4, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 900.
RWY 12L, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 3600.
RWY 12R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 3800.
RWY 17, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 3500.
RWY 22, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1900.
RWY 30L, 30R, 35, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 560.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 4, POLE 4403 FT FROM DER, 1609 FT RIGHT OF CENTERLINE, 121 FT AGL/166 FT MSL. LIGHT ON BUILDING 1562 FT FROM DER, 859 FT RIGHT OF CENTERLINE, 59 FT AGL/103 FT MSL. BUILDING 3990 FT FROM DER, 1223 FT RIGHT OF CENTERLINE, 139 FT AGL/174 FT MSL. LIGHT ON FLGPL 4618 FT FROM DER, 768 FT RIGHT OF CENTERLINE, 117 FT AGL/161 FT MSL.

NOTE: RWY 12L, ANTENNA ON HANGER 1548 FT FROM DER, 424 FT LEFT OF CENTERLINE, 45 FT AGL/85 FT MSL.

NOTE: RWY 12R, VEHICLE AND ROAD 514 FT FROM DER, 543 FT RIGHT OF CENTERLINE, 17 FT AGL/55 FT MSL. TREE 1217 FT FROM DER, 756 FT RIGHT OF CENTERLINE, 43 FT AGL/89 FT MSL. FENCE 85 FT FROM DER, 492 FT LEFT OF CENTERLINE, 4 FT AGL/45 FT MSL. VEHICLE AND ROAD 176 FT FROM DER, 497 FT LEFT OF CENTERLINE, 17 FT AGL/55 FT MSL. POLE 1011 FT FROM DER, 696 FT LEFT OF CENTERLINE, 33 FT AGL/73 FT MSL. TREE 1256 FT FROM DER, 783 FT LEFT OF CENTERLINE, 38 FT AGL/78 FT MSL.

NOTE: RWY 17, MULTIPLE POLES BEGINNING 606 FT FROM DER, 393 FT RIGHT OF CENTERLINE, UP TO 79 FT AGL/124 FT MSL. CRANE 1795 FT FROM DER, 689 FT RIGHT OF CENTERLINE, 100 FT AGL/150 FT MSL. ANT ON BLDG 620 FT FROM DER, 312 FT LEFT OF CENTERLINE, 27 FT AGL/72 FT MSL. MULTIPLE TREES BEGINNING 721 FT FROM DER, 260 FT LEFT OF CENTERLINE, UP TO 71 FT AGL/116 FT MSL. RADAR RFLTR 1214 FT FROM DER, 258 FT LEFT OF CENTERLINE, 32 FT AGL/77 FT MSL.

NOTE: RWY 22, POLE 727 FT FROM DER, 626 FT RIGHT OF CENTERLINE, 28 FT AGL/77 FT MSL. TREE 1310 FT FROM DER, 679 FT RIGHT OF CENTERLINE, 27 FT AGL/76 FT MSL. ANTENNA ON LT POLE 1805 FT FROM DER, 968 FT RIGHT OF CENTERLINE, 60 FT AGL/109 FT MSL.

NOTE: RWY 30L, ANTENNA ON BUILDING 547 FT FROM DER, 274 FT RIGHT OF CENTERLINE, 23 FT AGL/69 FT MSL. MULTIPLE POLES BEGINNING 341 FT FROM DER, 501 FT LEFT OF CENTERLINE, UP TO 39 FT AGL/84 FT MSL. MULTIPLE TREES BEGINNING 1392 FT FROM DER, 466 FT LEFT OF CENTERLINE, UP TO 78 FT AGL/118 FT MSL.

NOTE: RWY 30R, POLE 1096 FT FROM DER, 785 FT RIGHT OF CENTERLINE, 29 FT AGL/75 FT MSL. ANTENNA ON BUILDING 500 FT FROM DER, 525 FT LEFT OF CENTERLINE, 33 FT AGL/69 FT MSL.

NOTE: RWY 35, ANTENNA ON LT POLE 738 FT FROM DER, 519 FT RIGHT OF CENTERLINE, 40 FT AGL/86 FT MSL. LT POLE 1119 FT FROM DER, 353 FT RIGHT OF CENTERLINE, 31 FT AGL/77 FT MSL. ANTENNA ON BUILDING 66 FT FROM DER, 471 FT LEFT OF CENTERLINE, 33 FT AGL/69 FT MSL.

CONTROLLING OBSTACLES:

RWY 4: 174 FT MSL BUILDING 293935.00N/0951526.00W.

RWY 17: 150 FT MSL CRANE 293751.23N/0951710.97W, 2049 FT MSL TOWER 293430.00N/0952938.00W.

RWY 22, 30L, 30R: 2049 FT MSL TOWER 293430.00N/0952938.00W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KHOU 3E EPOCH YR: 2015.

DME/DME ASSESSMENT: SAT (RNP 2.0).

CHART: MEA/MOCA FROM SAALT TO PTRON, 3700/2200.

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PILOT NAVIGATION AREA:

7 NM ARC CENTERED ON SAALT (IF). CW
FROM: POINT A (BEARING 146 DEGREES TO SAALT).
TO POINT B (BEARING 236 DEGREES TO SAALT).
MINIMUM ALTITUDE 3000.

AIRPORTS SERVED:

WILLIAM P HOBBY

HOUSTON, TX

COMMUNICATIONS:

ATIS, CLNC DEL, HOU GND CON, HOU ATCT, HOU DEP CON, ZHU ARTCC

FIXES AND/OR NAVAIDS:

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REMARKS:

CHANGES:

1. CHANGED ALL REFERENCE OF DPORT TO WWREN.

REASONS:

1. ATC REQUEST.

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code		Superseded Number		Dated	Effective Date
PTRON RNAV	TWO	PTRON2.PTRON		ONE		05/29/2014	18 SEP 2014

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW04 (AER)	293820.80N/0951707.16W	N	-	-	-	-			
560 MSL	-	-	-	VA	043.95	-			CG 500 FT PER NM TO 900
-	-	-	-	VM	043.95	-			
SAALT	292949.81N/0951152.37W	Y	FB	DF	-	-			
RW12L (AER)	293909.38N/0951701.94W	N	-	-	-	-			
560 MSL	-	-	-	VA	133.93	-			CG 500 FT PER NM TO 3600
-	-	-	-	VM	133.93	-			
SAALT	292949.81N/0951152.37W	Y	FB	DF	-	-			
RW12R (AER)*	293856.26N/0951659.41W*	N	-	-	-	-			*DISPL THLD (1034 FT)
560 MSL	-	-	-	VA	133.95	-			CG 500 FT PER NM TO 3800
-	-	-	-	VM	133.95	-			
SAALT	292949.81N/0951152.37W	Y	FB	DF	-	-			
RW17 (AER)	293908.50N/0951704.80W	N	-	-	-	-			
560 MSL	-	-	-	VA	178.94	-			CG 500 FT PER NM TO 3500
-	-	-	-	VM	178.94	-			
SAALT	292949.81N/0951152.37W	Y	FB	DF	-	-			
RW22 (AER)	293914.97N/0951607.36W	N	-	-	-	-			
560 MSL	-	-	-	VA	223.96	-			CG 500 FT PER NM TO 1900
-	-	-	-	VM	223.96	-			
SAALT	292949.81N/0951152.37W	Y	FB	DF	-	-			
RW30L (AER)	293811.13N/0951605.82W	N	-	-	-	-			
560 MSL	-	-	-	VA	313.96	-			CG 500 FT PER NM TO 560
-	-	-	-	VM	313.96	-			
SAALT	292949.81N/0951152.37W	Y	FB	DF	-	-			

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PTRON RNAV		TWO	PTRON2.PTRON				ONE	05/29/2014	18 SEP 2014
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW30R (AER)	293834.02N/0951619.93W	N	-	-	-	-			
560 MSL	-	-	-	VA	313.94	-			CG 500 FT PER NM TO 560
-	-	-	-	VM	313.94	-			
SAALT	292949.81N/0951152.37W	Y	FB	DF	-	-			
RW35 (AER)	293809.12N/0951703.54W	N	-	-	-	-			
560 MSL	-	-	-	VA	358.94	-			CG 500 FT PER NM TO 560
-	-	-	-	VM	358.94	-			
SAALT	292949.81N/0951152.37W	Y	FB	DF	-	-			
SAALT	292949.81N/0951152.37W	Y	-	IF	-	-			
PTRON	292621.73N/0951250.13W	Y	FB	TF	193.66	3.56	AT/ABOVE 5000		
PTRON	292621.73N/0951250.13W	Y	-	IF	-	-	AT/ABOVE 5000		PTRON2.CRP
SKUBA	291143.09N/0954728.37W	Y	FB	TF	244.39	33.62			
PSX VORTAC	284551.93N/0961822.25W	Y	FB	TF	226.55	37.41			
YOMOM	275915.35N/0970855.98W	Y	FB	TF	224.02	64.42			
CRP VORTAC	275413.56N/0972641.57W	Y	FB	TF	252.38	16.51			
PTRON	292621.73N/0951250.13W	Y	-	IF	-	-	AT/ABOVE 5000		PTRON2.WWREN
JAWNS	285408.68N/0953701.36W	Y	FB	TF	213.48	38.48			
WWREN	280753.99N/0960554.98W	Y	FB	TF	209.01	52.68			
PTRON	292621.73N/0951250.13W	Y	-	IF	-	-	AT/ABOVE 5000		PTRON2.NGP
JAWNS	285408.68N/0953701.36W	Y	FB	TF	213.48	38.48			
NGP VORTAC	274110.60N/0971741.07W	Y	FB	TF	231.08	114.85			
PTRON	292621.73N/0951250.13W	Y	-	IF	-	-	AT/ABOVE 5000		PTRON2.PSX
SKUBA	291143.09N/0954728.37W	Y	FB	TF	244.39	33.62			
PSX VORTAC	284551.93N/0961822.25W	Y	FB	TF	226.55	37.41			

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PTRON RNAV		TWO	PTRON2.PTRON			ONE	05/29/2014	18 SEP 2014	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
PTRON	292621.73N/0951250.13W	Y	-	IF	-	-	AT/ABOVE 5000		PTRON2.YOMOM
SKUBA	291143.09N/0954728.37W	Y	FB	TF	244.39	33.62			
PSX VORTAC	284551.93N/0961822.25W	Y	FB	TF	226.55	37.41			
YOMOM	275915.35N/0970855.98W	Y	FB	TF	224.02	64.42			

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PTRON RNAV	TWO	PTRON2.PTRON	ONE	05/29/2014	18 SEP 2014

ARINC PACKET - 424-18 - SID

NAVAID	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAD	CRP	K4011550VTHA	N27541356W097264157	N27541356W097264157	E0090000602	NARCORPUS CHRISTI							
SUSAD	NGP	K4011400VTLA	N27411060W097174107	N27411060W097174107	E0060000171	NARTRUAX							
SUSAD	PSX	K4011730VTHA	N28455193W096182225	N28455193W096182225	E0080000062	NARPALACIOS							

[illegible][illegible][illegible][illegible]

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[illegible]

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ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	RW04		010		VA		FB		041.0()		AA 00560	
	RW04		020		VM		FB		041.0()			
	RW04	SAALT	030		DF		FB	1.0				
	RW12L		010		VA		FB		130.9()		AA 00560	
	RW12L		020		VM		FB		130.9()			
	RW12L	SAALT	030		DF		FB	1.0				
	RW12R		010		VA		FB		131.0()		AA 00560	
	RW12R		020		VM		FB		131.0()			
	RW12R	SAALT	030		DF		FB	1.0				
	RW17		010		VA		FB		175.9()		AA 00560	
	RW17		020		VM		FB		175.9()			
	RW17	SAALT	030		DF		FB	1.0				
	RW22		010		VA		FB		221.0()		AA 00560	
	RW22		020		VM		FB		221.0()			
	RW22	SAALT	030		DF		FB	1.0				
	RW30L		010		VA		FB		311.0()		AA 00560	
	RW30L		020		VM		FB		311.0()			
	RW30L	SAALT	030		DF		FB	1.0				
	RW30R		010		VA		FB		310.9()		AA 00560	
	RW30R		020		VM		FB		310.9()			
	RW30R	SAALT	030		DF		FB	1.0				
	RW35		010		VA		FB		355.9()		AA 00560	
	RW35		020		VM		FB		355.9()			
	RW35	SAALT	030		DF		FB	1.0				
		SAALT	010		IF		FB					
		PTRON	020		TF		FB	1.0			AA 05000	
	CRP	PTRON	010		IF		FB				AA 05000	
	CRP	SKUBA	020		TF		FB	1.0				
	CRP	PSX	030		TF		FB	1.0				
	CRP	YOMOM	040		TF		FB	1.0				
	CRP	CRP	050		TF		FB	1.0				
	NGP	PTRON	010		IF		FB				AA 05000	
	NGP	JAWNS	020		TF		FB	1.0				
	NGP	NGP	030		TF		FB	1.0				
	PSX	PTRON	010		IF		FB				AA 05000	
	PSX	SKUBA	020		TF		FB	1.0				
	PSX	PSX	030		TF		FB	1.0				
	WWREN	PTRON	010		IF		FB				AA 05000	
	WWREN	JAWNS	020		TF		FB	1.0				
	WWREN	WWREN	030		TF		FB	1.0				
	YOMOM	PTRON	010		IF		FB				AA 05000	
	YOMOM	SKUBA	020		TF		FB	1.0				

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YOMOM	PSX	030	TF	FB	1.0
YOMOM	YOMOM	040	TF	FB	1.0

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CRP	N275413.56	W0972641.57	N2754.226	W09726.693
	NGP	N274110.60	W0971741.07	N2741.177	W09717.685
	PSX	N284551.93	W0961822.25	N2845.866	W09618.371
	JAWNS	N285408.68	W0953701.36	N2854.145	W09537.023
	SKUBA	N291143.09	W0954728.37	N2911.718	W09547.473
	WWREN	N280753.99	W0960554.98	N2807.900	W09605.916
	YOMOM	N275915.35	W0970855.98	N2759.256	W09708.933
	PTRON	N292621.73	W0951250.13	N2926.362	W09512.836
	SAALT	N292949.81	W0951152.37	N2929.830	W09511.873
	RW04	N293820.80	W0951707.16	N2938.347	W09517.119
	RW12L	N293909.38	W0951701.94	N2939.156	W09517.032
	RW12R	N293856.26	W0951659.41	N2938.938	W09516.990
	RW17	N293908.50	W0951704.80	N2939.142	W09517.080
	RW22	N293914.97	W0951607.36	N2939.250	W09516.123
	RW30L	N293811.13	W0951605.82	N2938.186	W09516.097
	RW30R	N293834.02	W0951619.93	N2938.567	W09516.332
	RW35	N293809.12	W0951703.54	N2938.152	W09517.059

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW04	00042	57
	RW12L	00045	60
	RW12R	00046	49
	RW17	00045	40
	RW22	00039	52
	RW30L	00042	58
	RW30R	00040	50
	RW35	00043	41