

**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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WAILN	TWO	WAILN2:WAILN	ONE	07/29/2010	22 AUG 2013

**TYPE:** RNAV SID

**DP ROUTE DESCRIPTION:**

**DEPARTING GEORGE BUSH INTERCONTINENTAL/HOUSTON:** CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO GTARR, THEN ON DEPICTED ROUTE TO WALIN, MAINTAIN 4000. THENCE...

**DEPARTING WILLIAM P. HOBBY:** CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO GTARR, THEN ON DEPICTED ROUTE TO WALIN, MAINTAIN 5000. THENCE...

**DEPARTING ELLINGTON FIELD:** CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO GTARR, THEN ON DEPICTED ROUTE TO WALIN, MAINTAIN 4000. THENCE...

**ALL OTHER AIRPORTS:** WHEN ENTERING CONTROLLED AIRSPACE, CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO GTARR, MAINTAIN 4000. THENCE...

... 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

**PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:**

**NOTE:** RNAV 1.

**NOTE:** RADAR REQUIRED.

**NOTE:** DME/DME/IRU OR GPS REQUIRED.

**NOTE:** FOR AIRCRAFT DESTINED SAT TERMINAL AREA ONLY.

**GEORGE BUSH INTERCONTINENTAL/HOUSTON:** RWY 8R, 8L, 9, 27, 15L, 15R, 26L, 26R, 33L, 33R, STANDARD.

**WILLIAM P. HOBBY:** RWY 12L, 12R, 30L, 30R, 35, STANDARD. RWY 4, 300-1 OR STANDARD WITH MINIMUM CLIMB OF 270 FT PER NM TO 300. RWY 17, 300-1 RWY 22, STANDARD WITH MINIMUM CLIMB OF 290 FT PER NM TO 1500.

**ELLINGTON FIELD:** RWY 4, 17R, 17L, 35R, 35L, STANDARD. RWY 22, 200-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 214 PER NM TO 300 OR ALTERNATIVELY WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1400 FT PRIOR TO DER.

**LONE STAR EXECUTIVE:** RWY 1, 14, 19, 32, STANDARD.

**DAVID WAYNE HOOKS MEMORIAL:** RWY 17R, 35L, STANDARD. RWY 17L, 35R NA - ENVIRONMENTAL. WATERWAY 17, 35 NA - AIR TRAFFIC.

**SUGAR LAND RGNL:** RWY 17, 35, STANDARD.

**HOUSTON-SOUTHWEST:** RWY 9, 27, STANDARD.

**HOUSTON EXECUTIVE:** RWY 18, 36, STANDARD.

**WEST HOUSTON:** RWY 15, 33, STANDARD.

**SCHOLES INTL AT GALVESTON:** RWY 14, 18, 32, 36, STANDARD.

**TEXAS GULF COAST RGNL:** RWY 17, 35, STANDARD.

**LA PORTE MUNI:** RWY 5, 12, 23, 30, STANDARD.

QUALITY  
CHECKED

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**TAKEOFF OBSTACLES NOTES:**

GEORGE BUSH INTERCONTINENTAL/HOUSTON: 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.

WILLIAM P. HOBBS: NOTE: RWY 4, POLE 4403 FT FROM DER, 1069 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 BUILDING 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 REFLECTOR 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.

ELLINGTON FIELD: NOTE: RWY 4, TREE 1526 FT FROM DER, 737 FT RIGHT OF CENTERLINE, 39 FT AGL/69 FT MSL. NOTE: RWY 17R, POLE 1488 FT FROM DER, 817 FT RIGHT OF CENTERLINE, 40 FT AGL/74 FT MSL. NOTE: RWY 22, OL ON GS AND EQUIPMENT 321 FT FROM DER, 544 FT LEFT OF CENTERLINE, 39 FT AGL/68 FT MSL. SIGN 213 FT FROM DER, 472 FT RIGHT OF CENTERLINE, 6 FT AGL/32 FT MSL. ANTENNA ON BUILDING 1998 FT FROM DER, 598 FT RIGHT OF CENTERLINE, 54 FT AGL/83 FT MSL. OBSTRUCTION LIGHT ON COMM EQUIPMENT AND ANTENNA 1626 FT FROM DER, 837 FT RIGHT OF CENTERLINE, 88 FT AGL/114 FT MSL. OL ON WATER TOWER AND TANK 6114 FT FROM DER, 1635 FT RIGHT OF CENTERLINE, 159 FT AGL/192 FT MSL. NOTE: RWY 35R, TREE 1597 FT FROM DER, 32 FT LEFT OF CENTERLINE, 50 FT AGL/80 FT MSL. TANK 2639 FT FROM DER, 1157 FT RIGHT OF CENTERLINE, 77 FT AGL/109 FT MSL. NOTE: RWY 35L, TREES BEGINNING 1119 FT FROM DER, 679 FT RIGHT OF CENTERLINE, UP TO 37 FT AGL/77 FT MSL. CRANE 2353 FT FROM DER, 1024 FT LEFT OF CENTERLINE, 58 FT AGL/97 FT MSL.

LONE STAR EXECUTIVE: NOTE: RWY 1, TREES BEGINNING 194 FT FROM DER, 130 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/374 FT MSL. TREES BEGINNING 817 FT FROM DER, 15 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/359 FT MSL. NOTE: RWY 14, TREES AND OBSTRUCTION LIGHT ON DME BEGINNING 399 FT FROM DER, 80 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/329 FT MSL. TREES BEGINNING 640 FT FROM DER, 408 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/329 FT MSL. NOTE: RWY 19, TREES BEGINNING 68 FT FROM DER, 64 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/344 FT MSL. TREES BEGINNING 1 FT FROM DER, 159 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/339 FT MSL. NOTE: RWY 32, TREES BEGINNING 1785 FT FROM DER, 973 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/339 FT MSL. TREES AND VEHICLES ON ROAD BEGINNING 603 FT FROM DER, 458 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/354 FT MSL.

DAVID WAYNE HOOKS MEMORIAL: NOTE: RWY 17R, MULTIPLE TREES BEGINNING 708 FT FROM DER, 68 FT LEFT OF CENTERLINE, UP TO 71 FT AGL/220 FT MSL. MULTIPLE HANGARS BEGINNING 433 FT FROM DER, 515 FT LEFT OF CENTERLINE, UP TO 37 FT AGL/182 FT MSL. DME ANTENNA 653 FT FROM DER, 256 FT LEFT OF CENTERLINE, 13 FT AGL/162 FT MSL. MULTIPLE TREES AND POLE BEGINNING 85 FT FROM DER, 294 FT RIGHT OF CENTERLINE, UP TO 45 FT AGL/189 FT MSL. NOTE: RWY 35L, MULTIPLE TREES AND POLES BEGINNING 144 FT FROM DER, 32 FT LEFT OF CENTERLINE, UP TO 79 FT AGL/238 FT MSL. MULTIPLE HANGARS AND BUILDINGS BEGINNING 85 FT FROM DER, 9 FT LEFT OF CENTERLINE, UP TO 53 FT AGL/202 FT MSL. MULTIPLE TREES, TOWERS, AND POLES BEGINNING 100 FT FROM DER, 124 FT RIGHT OF CENTERLINE, UP TO 93 FT AGL/247 FT MSL. VEHICLE ON ROAD 315 FT FROM DER, ON CENTERLINE, 15 FT AGL/166 FT MSL. BUILDING 894 FT FROM DER, 231 FT RIGHT OF CENTERLINE, 23 FT AGL/173 FT MSL.

SUGAR LAND RGNL: NOTE: RWY 17, MULTIPLE POLES BEGINNING 436 FT FROM DER, 172 FT RIGHT OF CENTERLINE, UP TO 44 FT AGL/124 FT MSL. BUILDING 1036 FT FROM DER, 743 FT RIGHT OF CENTERLINE, 26 FT AGL/102 FT MSL. RAILROAD 110 FT FROM DER, 10 FT LEFT OF CENTERLINE, 23 FT AGL/104 FT MSL. MULTIPLE POLES BEGINNING 135 FT FROM DER, 270 FT LEFT OF CENTERLINE, UP TO 44 FT AGL/111 FT MSL. NOTE: RWY 35, VEHICLE AND ROAD 65 FT FROM DER, 2 FT RIGHT OF CENTERLINE, 15 FT

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AGL/96 FT MSL. MULTIPLE TREES BEGINNING 37 FT FROM DER, 275 FT RIGHT OF CENTERLINE, UP TO 81 FT AGL/164 FT MSL. DME ANTENNA 380 FT FROM DER, 253 FT RIGHT OF CENTERLINE, 24 FT AGL/100 FT MSL. MULTIPLE TREES BEGINNING 83 FT FROM DER, 65 FT LEFT OF CENTERLINE, UP TO 81 FT AGL/155 FT MSL.

**HOUSTON-SOUTHWEST: NOTE: RWY 9,** MULTIPLE HANGARS BEGINNING 239 FT FROM DER, 360 FT RIGHT OF CENTERLINE, UP TO 42 FT AGL/106 FT MSL. MULTIPLE TREES BEGINNING 501 FT FROM DER, 355 FT RIGHT OF CENTERLINE, UP TO 43 FT AGL/111 FT MSL. MULTIPLE HANGARS BEGINNING 119 FT FROM DER, 498 FT LEFT OF CENTERLINE, UP TO 41 FT AGL/105 FT MSL. POLE 332 FT FROM DER, 299 FT LEFT OF CENTERLINE, 43 FT AGL/97 FT MSL. ANTENNA 1172 FT FROM DER, 658 FT LEFT OF CENTERLINE, 51 FT AGL/115 FT MSL. MULTIPLE TREES BEGINNING 558 FT FROM DER, 68 FT LEFT OF CENTERLINE, UP TO 58 FT AGL/122 FT MSL. **NOTE: RWY 27,** MULTIPLE TREES BEGINNING 1050 FT FROM DER, 40 FT LEFT OF CENTERLINE, UP TO 71 FT AGL/140 FT MSL. VEHICLE ON ROAD 99 FT FROM DER, 291 FT RIGHT OF CENTERLINE, 15 FT AGL/83 FT MSL. MULTIPLE TREES BEGINNING 873 FT FROM DER, 514 FT RIGHT OF CENTERLINE, UP TO 59 FT AGL/130 FT MSL. MULTIPLE TRMSN POLES BEGINNING 1304 FT FROM DER, 131 FT RIGHT OF CENTERLINE, UP TO 41 FT AGL/110 FT MSL.

**HOUSTON EXECUTIVE: NOTE: RWY 36,** POWER POLES FROM LEFT TO RIGHT BEGINNING 703 FT FROM DER, 623 FT LEFT TO 685 FT RIGHT OF CENTERLINE, UP TO 32 FT AGL/196 FT MSL.

**WEST HOUSTON: NOTE: RWY 15,** ROAD AND VEHICLE BEGINNING 74 FT FROM DER, 60 FT LEFT OF CENTERLINE, UP TO 15 FT AGL/123 FT MSL. ROAD AND VEHICLE BEGINNING 342 FT FROM DER, 6 FT RIGHT OF CENTERLINE, UP TO 15 FT AGL/123 FT MSL. BUILDING 177 FT FROM DER, 398 FT LEFT OF CENTERLINE, 18 FT AGL/126 FT MSL. LIGHT POLE 942 FT FROM DER, 453 FT RIGHT OF CENTERLINE, 39 FT AGL/145 FT MSL. TREES BEGINNING 307 FT FROM DER, 26 FT LEFT OF CENTERLINE, UP TO 58 FT AGL/165 MSL. TREES BEGINNING 130 FT FROM DER, 117 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/208 FT MSL. **NOTE: RWY 33,** TREES BEGINNING 168 FT FROM DER, 9 FT LEFT OF CENTERLINE, UP TO 70 FT AGL/179 FT MSL. TREES BEGINNING 66 FT FROM DER, 3 FT RIGHT OF CENTERLINE, UP TO 75 FT AGL/184 FT MSL.

**SCHOLLES INTL AT GALVESTON: NOTE: RWY 14,** BUILDING 2614 FT FROM DER, 376 FT RIGHT OF CENTERLINE, 76 FT AGL/81 FT MSL. **NOTE: RWY 18,** BUILDINGS BEGINNING 2560 FT FROM DER, 284 FT LEFT OF CENTERLINE, UP TO 121 FT AGL/178 FT MSL. T-L TOWER 636 FT FROM DER, 551 FT RIGHT OF CENTERLINE, 55 FT AGL/60 FT MSL. TREES AND POLES BEGINNING 50 FT FROM DER, 75 FT RIGHT OF CENTERLINE, UP TO 60 FT AGL/65 FT MSL. **NOTE: RWY 32,** CRANE 4434 FT FROM DER, 1081 FT LEFT OF CENTERLINE, 131 FT AGL/ 131 FT MSL. **NOTE: RWY 36,** BUSH 419 FT FROM DER, 577 FT LEFT OF CENTERLINE, 12 FT AGL/17 FT MSL. TREE 526 FT FROM DER, 371 FT LEFT OF CENTERLINE, 14 FT AGL/19 FT MSL. TREES BEGINNING 713 FT FROM DER, 383 FT RIGHT OF CENTERLINE, UP TO 27 FT AGL/32 FT MSL.

**TEXAS GULF COAST RGNL: NOTE: RWY 35,** TREE 1510 FT FROM DER, 721 FT LEFT OF CENTERLINE, 48 FT AGL/68 FT MSL.

**LA PORTE MUNI: NOTE: RWY 12,** TREES AND POLES BEGINNING 128 FT FROM DER, 42 FT LEFT OF CENTERLINE, UP TO 50 FT AGL/74 FT MSL. TREES AND POLES BEGINNING 131 FT FROM DER, 114 FT RIGHT OF CENTERLINE, UP TO 39 FT AGL/63 FT MSL. CHIMNEY 676 FT FROM DER, 412 FT RIGHT OF CENTERLINE, 31 FT AGL/55 FT MSL. **NOTE: RWY 23,** TREES BEGINNING 1320 FT FROM DER, 43 FT LEFT OF CENTERLINE, UP TO 63 FT AGL/87 FT MSL. HANGARS BEGINNING 233 FT FROM DER, 288 FT RIGHT OF CENTERLINE, UP TO 35 FT AGL/59 FT MSL. VEHICLE ON ROAD, 594 FT FROM DER, 513 FT LEFT OF CENTERLINE, 15 FT AGL/39 FT MSL. TREES 1010 FT FROM DER, 1010 FT RIGHT OF CENTERLINE, UP TO 63 FT AGL/87 FT MSL. **NOTE: RWY 30,** TREES AND POLES BEGINNING 114 FT FROM DER, 67 FT LEFT OF CENTERLINE, UP TO 63 FT AGL/87 FT MSL. BUILDINGS 335 FT FROM DER, 356 FT LEFT OF CENTERLINE, 25 FT AGL/50 FT MSL. TREES AND POLES BEGINNING 44 FT FROM DER, 35 FT RIGHT OF CENTERLINE, UP TO 52 FT AGL/76 FT MSL.

**CONTROLLING OBSTACLES:**

**WILLIAM P. HOBBY: 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.

**ELLINGTON FIELD: RWY 22:** 192 FT MSL WATER TOWER, 293521.00N/0951048.09W.

**SUGAR LAND RGNL: RWY 17:** 2049 FT MSL TOWER 293415.70N/0953038.30W, **RWY 35:** 2049 FT MSL TOWER 293435.00N/0953037.00W.

**HOUSTON-SOUTHWEST: RWY 9, 27:** 2049 FT MSL TOWER 293341.00N/0953005.00W.

**HOUSTON EXECUTIVE: RWY 36:** 546 FT MSL TOWER 295050.00N/0955259.00W.

**LA PORTE MUNI: RWY 12:** 499 FT MSL STACK 293747.00N/0950316.00W, **RWY 30:** 589 FT MSL TOWER 294252.00N/0950543.00W.

**LOST COMMUNICATIONS PROCEDURES:**



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**ADDITIONAL FLIGHT DATA:**

REFERENCE MAG VAR: KIAH 5E/EPOCH YEAR: 2000  
DME/DME ASSESSMENT: SAT (RNP 2.0)  
CHART: GTARR TO WEEED MEA 4000.  
CHART: WEEED TO WAILN MEA 4000.

PILOT NAVIGATION AREA: 10 NM ARC CENTERED ON GTARR (IF), CW  
FROM: POINT A (BEARING 225 DEGREES TO GTARR)  
TO: POINT B (BEARING 315 DEGREES TO VUH GTARR)  
MINIMUM ALTITUDE 4000.

**AIRPORTS SERVED:**

GEORGE BUSH INTERCONTINENTAL/HOUSTON  
WILLIAM P. HOBBY  
ELLINGTON FIELD  
LONE STAR EXECUTIVE  
DAVID WAYNE HOOKS MEMORIAL  
SUGAR LAND RGNL  
HOUSTON-SOUTHWEST  
HOUSTON EXECUTIVE  
WEST HOUSTON  
SCHOLES INTL AT GALVESTON  
TEXAS GULF COAST RGNL  
LA PORTE MUNI

HOUSTON, TX  
HOUSTON, TX  
HOUSTON, TX  
HOUSTON, TX  
HOUSTON, TX  
HOUSTON, TX  
HOUSTON, TX  
HOUSTON, TX  
HOUSTON, TX  
HOUSTON, TX  
GALVESTON, TX  
ANGLETON/LAKE JACKSON, TX  
LA PORTE, TX

**COMMUNICATIONS:**

ATIS: IAH, HOU, EFD, CXO, DWH. AWOS/ASOS: IAH, HOU, EFD, DWH, SGR, AXH, TME, GLS, LBX. CLNC DEL: IAH, HOU, CXO, DWH, SGR, AXH, TME, IWS, GLS, LBX, T41. GND CON: IAH, HOU, EFD, CXO, DWH, SGR, GLS. TWR: IAH, HOU, EFD, CXO, DWH, SGR, GLS. CTAF: CXO, DWH, SGR, AXH, TME, IWS, GLS, LBX, T41. DEP CON: IAH, HOU, EFD, CXO, DWH, SGR, AXH, TME, IWS, GLS, LBX, T41.

**FIXES AND/OR NAVAIDS:**

CHART WEEED.



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**CHANGES:**

1. CHANGED RUNWAY NUMBERS AT SCHOLLES INTL AT GALVESTON AIRPORT (KGLS) FROM 13/31 TO 14/32 AND 17/35 TO 18/36.
2. UPDATED ALL AIRPORTS TAKEOFF MINIMUMS AND OBSTACLE NOTES.
3. UPDATED NOTE FROM "FOR ADVANCED NAVIGATION AIRCRAFT DESTINED AUS/SAT TERMINAL AREA SAT: DEPARTING ALL HOUSTON AIRPORTS. AUS: DEPARTING ALL HOUSTON AIRPORTS EXCEPT IAH, CXO, DWH" TO "FOR ALL AIRCRAFT DESTINED THE SAT TERMINAL AREA ONLY."
4. REMOVED WEISER AIR PARK (EYQ) AIRPORT.

**REASONS:**

1. FPT REQUEST/MAG VAR CHANGE AND UPDATED AIRPORT INFORMATION PER AVNIS REPORT.
2. IAW 8260.46D, APPENDIX E, SECTION 1, PARA 5-7.
3. PER ATC.
4. AIRPORT DOES NOT MEET IFR DESIGN STANDARDS.

CONCURRENT WITH KGLS TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES, AMDT 5.



## DEPARTURE (DATA RECORD)

DP Name		Number	DP Computer Code		Superseded Number		Dated	Effective Date	
WAILN		TWO	WAILN2.WAILN		ONE		07/29/2010	22 AUG 2013	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
GTARR	294600.23N/0960107.72W	Y	FB	IF	-	-			
WEEED	294645.14N/0961054.94W	Y	FB	TF	275.05	8.55			
WAILN	294829.63N/0963417.12W	Y	FB	TF	274.98	20.41			

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## DEPARTURE (DATA RECORD)

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WAILN (RNAV)	TWO	WAILN2.WAILN	ONE	07/29/2010	22 AUG 2013

ARINC PACKET - 424-18 - SID

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

**DEPARTURE (DATA RECORD)**

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WAILN (RNAV)	TWO	WAILN2.WAILN	ONE	07/29/2010	22 AUG 2013

## ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	ALL	GTARR	010		IF		FB					
	ALL	WEEED	020		TF		FB	1.0				
	ALL	WAILN	030		TF		FB	1.0				

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	GTARR	N294600.23	W0960107.72	N2946.004	W09601.129
	WAILN	N294829.63	W0963417.12	N2948.494	W09634.285
	WEEED	N294645.14	W0961054.94	N2946.752	W09610.916
	RW18	N294850.85	W0955352.86	N2948.848	W09553.881
	RW36	N294745.40	W0955351.88	N2947.757	W09553.865

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW18	00166	40
	RW36	00163	40





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ARINC PACKET - 424-18 - SID

	1	2	3	4	5	6	7	8	9	0	1	2	3
WP	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAEAENRT	GTARR K40	W	L	N29460023W096010772			E0034	NAR		GTARR		
	SUSAEAENRT	WAILN K40	W	L	N29482963W096341712			E0037	NAR		WAILN		
	SUSAEAENRT	WEED K40	W	L	N29464514W096105494			E0035	NAR		WEED		

	1	2	3	4	5	6	7	8	9	0	1	2	3
AIRPORT	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP KAXHK4AAXH	0	050YHN29302210W095283690E005000069				1800018000C	MNAR		HOUSTON-SOUTHWEST			

	1	2	3	4	5	6	7	8	9	0	1	2	3
SEGMENT	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP KAXHK4DWAILN25ALL	010GTARRK4EA0E		IF						18000			
	SUSAP KAXHK4DWAILN25ALL	020WEEDK4EA0E		010TF									
	SUSAP KAXHK4DWAILN25ALL	030WAILNK4EA0EE		010TF									

	1	2	3	4	5	6	7	8	9	0	1	2	3
RUNWAY	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP KAXHK4GRW09	0050020892	N29302391W095290510+0000			-0006200069000047100RIAXH0							
	SUSAP KAXHK4GRW27	0050022692	N29302025W095280865+0000			-0007000066000045100R							



**DEPARTURE (DATA RECORD)**

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WAILN (RNAV)	TWO	WAILN2.WAILN	ONE	07/29/2010	22 AUG 2013

## ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ALL	GTARR	010		IF		FB					
	ALL	WEEED	020		TF		FB	1.0				
	ALL	WAILN	030		TF		FB	1.0				

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	GTARR	N294600.23	W0960107.72	N2946.004	W09601.129
	WAILN	N294829.63	W0963417.12	N2948.494	W09634.285
	WEEED	N294645.14	W0961054.94	N2946.752	W09610.916
	RW09	N293023.91	W0952905.10	N2930.399	W09529.085
	RW27	N293020.25	W0952808.65	N2930.338	W09528.144

## RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW09	00069	47
RW27	00066	45



## DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WAILN (RNAV)	TWO	WAILN2.WAILN	ONE	07/29/2010	22 AUG 2013

ARINC PACKET - 424-18 - SID

	1	2	3	4	5	6	7	8	9	0	1	2	3
WP	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAEAENRT	GTARR K40	W	L	N29460023W096010772			E0034	NAR		GTARR		
	SUSAEAENRT	WAILN K40	W	L	N29482963W096341712			E0037	NAR		WAILN		
	SUSAEAENRT	WEED K40	W	L	N29464514W096105494			E0035	NAR		WEED		

	1	2	3	4	5	6	7	8	9	0	1	2	3
AIRPORT	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP KCXOK4ACXO	0	075YHN30211220W095245430E005000245				1800018000C	MNAR		LONE STAR EXECUTIVE			

	1	2	3	4	5	6	7	8	9	0	1	2	3
SEGMENT	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP KCXOK4DWAILN25ALL	010GTARRK4EA0E		IF						18000			
	SUSAP KCXOK4DWAILN25ALL	020WEEDK4EA0E		010TF									
	SUSAP KCXOK4DWAILN25ALL	030WAILNK4EA0EE		010TF									

	1	2	3	4	5	6	7	8	9	0	1	2	3
RUNWAY	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP KCXOK4GRW01	0050000122	N30204423W095251012+0000							+0042500230000049099R			
	SUSAP KCXOK4GRW14	0075011405	N30214572W095251362+0100							+0043800234000047150IICX01			
	SUSAP KCXOK4GRW19	0050001922	N30213151W095245328+0000							+0042200229000049099R			
	SUSAP KCXOK4GRW32	0075013205	N30204454W095242510-0100							+0046000241000045150R			



**DEPARTURE (DATA RECORD)**

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WAILN (RNAV)	TWO	WAILN2.WAILN	ONE	07/29/2010	22 AUG 2013

## ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	ALL	GTARR	010		IF		FB					
	ALL	WEEED	020		TF		FB	1.0				
	ALL	WAILN	030		TF		FB	1.0				

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	GTARR	N294600.23	W0960107.72	N2946.004	W09601.129
	WAILN	N294829.63	W0963417.12	N2948.494	W09634.285
	WEEED	N294645.14	W0961054.94	N2946.752	W09610.916
	RW01	N302044.23	W0952510.12	N3020.737	W09525.169
	RW14	N302145.72	W0952513.62	N3021.762	W09525.227
	RW19	N302131.51	W0952453.28	N3021.525	W09524.888
	RW32	N302044.54	W0952425.10	N3020.742	W09524.418

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW01	00230	49
	RW14	00234	47
	RW19	00229	49
	RW32	00241	45



## DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WAILN (RNAV)	TWO	WAILN2.WAILN	ONE	07/29/2010	22 AUG 2013

ARINC PACKET - 424-18 - SID

	1	2	3	4	5	6	7	8	9	0	1	2	3
WP	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAEAENRT	GTARR K40	W	L	N29460023W096010772			E0034	NAR		GTARR		
	SUSAEAENRT	WAILN K40	W	L	N29482963W096341712			E0037	NAR		WAILN		
	SUSAEAENRT	WEED K40	W	L	N29464514W096105494			E0035	NAR		WEED		

	1	2	3	4	5	6	7	8	9	0	1	2	3
AIRPORT	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP	KDWHK4ADWH	0	070YHN30034260W095331000E005000152			1800018000C	MNAR		DAVID WAYNE HOOKS MEMORIAL			

	1	2	3	4	5	6	7	8	9	0	1	2	3
SEGMENT	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP	KDWHK4DWAILN24RW17R	010GTARRK4EA0E		IF					18000			
	SUSAP	KDWHK4DWAILN24RW17R	020WEEEDK4EA0E		010TF								
	SUSAP	KDWHK4DWAILN24RW17R	030WAILNK4EA0EE		010TF								
	SUSAP	KDWHK4DWAILN24RW35L	010GTARRK4EA0E		IF					18000			
	SUSAP	KDWHK4DWAILN24RW35L	020WEEEDK4EA0E		010TF								
	SUSAP	KDWHK4DWAILN24RW35L	030WAILNK4EA0EE		010TF								

	1	2	3	4	5	6	7	8	9	0	1	2	3
RUNWAY	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP	KDWHK4GRW17R	0070091678	N30041404W095331588-0100			+0018600152100752100RIHEW0						
	SUSAP	KDWHK4GRW35L	0070093478	N30031510W095330727+0100			+0016600145000045100R						



**DEPARTURE (DATA RECORD)**

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WAILN (RNAV)	TWO	WAILN2.WAILN	ONE	07/29/2010	22 AUG 2013

## ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	RW17R	GTARR	010		IF		FB					
	RW17R	WEEED	020		TF		FB	1.0				
	RW17R	WAILN	030		TF		FB	1.0				
	RW35L	GTARR	010		IF		FB					
	RW35L	WEEED	020		TF		FB	1.0				
	RW35L	WAILN	030		TF		FB	1.0				

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	GTARR	N294600.23	W0960107.72	N2946.004	W09601.129
	WAILN	N294829.63	W0963417.12	N2948.494	W09634.285
	WEEED	N294645.14	W0961054.94	N2946.752	W09610.916
	RW17R	N300414.04	W0953315.88	N3004.234	W09533.265
	RW35L	N300315.10	W0953307.27	N3003.252	W09533.121

## RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW17R	00152	52
RW35L	00145	45



## DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WAILN (RNAV)	TWO	WAILN2.WAILN	ONE	07/29/2010	22 AUG 2013

ARINC PACKET - 424-18 - SID

	1	2	3	4	5	6	7	8	9	0	1	2	3
WP	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAEAENRT	GTARR K40	W	L	N29460023W096010772			E0034	NAR		GTARR		
	SUSAEAENRT	WAILN K40	W	L	N29482963W096341712			E0037	NAR		WAILN		
	SUSAEAENRT	WEEED K40	W	L	N29464514W096105494			E0035	NAR		WEEED		

	1	2	3	4	5	6	7	8	9	0	1	2	3
AIRPORT	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP KEFDK4AEFD	0	090YHN29362640W095093150E005000033			1800018000C		MNAR		ELLINGTON			

	1	2	3	4	5	6	7	8	9	0	1	2	3
SEGMENT	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP KEFDK4DWAILN25ALL	010GTARRK4EA0E		IF						18000			
	SUSAP KEFDK4DWAILN25ALL	020WEEEDK4EA0E		010TF									
	SUSAP KEFDK4DWAILN25ALL	030WAILNK4EA0EE		010TF									

	1	2	3	4	5	6	7	8	9	0	1	2	3
RUNWAY	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP KEFDK4GRW04	0080010389	N29355343W095094676+0100			-0019200026000050150R							
	SUSAP KEFDK4GRW17L	0046091739	N29370649W095092235+0000			-0017600031000050080D							
	SUSAP KEFDK4GRW17R	0090001738	N29370599W095095182+0000			-0017400032000051150IILPV1							
	SUSAP KEFDK4GRW22	0080012189	N29365054W095084397-0100			-0017900030000054150IIFNF1							
	SUSAP KEFDK4GRW35L	0090003538	N29353691W095094975+0000			-0018800028000054150IIEFD1							
	SUSAP KEFDK4GRW35R	0046093539	N29362088W095092130+0000			-0018000030000050080D							



**DEPARTURE (DATA RECORD)**

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WAILN (RNAV)	TWO	WAILN2.WAILN	ONE	07/29/2010	22 AUG 2013

## ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	ALL	GTARR	010		IF		FB					
	ALL	WEED	020		TF		FB	1.0				
	ALL	WAILN	030		TF		FB	1.0				

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	GTARR	N294600.23	W0960107.72	N2946.004	W09601.129
	WAILN	N294829.63	W0963417.12	N2948.494	W09634.285
	WEED	N294645.14	W0961054.94	N2946.752	W09610.916
	RW04	N293553.43	W0950946.76	N2935.891	W09509.779
	RW17L	N293706.49	W0950922.35	N2937.108	W09509.373
	RW17R	N293705.99	W0950951.82	N2937.100	W09509.864
	RW22	N293650.54	W0950843.97	N2936.842	W09508.733
	RW35L	N293536.91	W0950949.75	N2935.615	W09509.829
	RW35R	N293620.88	W0950921.30	N2936.348	W09509.355

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW04	00026	50
	RW17L	00031	50
	RW17R	00032	51
	RW22	00030	54
	RW35L	00028	54
	RW35R	00030	50





## DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WAILN (RNAV)	TWO	WAILN2.WAILN	ONE	07/29/2010	22 AUG 2013

ARINC PACKET - 424-18 - SID

	1	2	3	4	5	6	7	8	9	0	1	2	3
WP	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAEAENRT	GTARR K40	W	L	N29460023W096010772			E0034	NAR		GTARR		
	SUSAEAENRT	WAILN K40	W	L	N29482963W096341712			E0037	NAR		WAILN		
	SUSAEAENRT	WEED K40	W	L	N29464514W096105494			E0035	NAR		WEED		

	1	2	3	4	5	6	7	8	9	0	1	2	3
AIRPORT	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP KGLSK4AGLS	0	060YHN29155520W094513750E002000006				1800018000C	MNAR	SCHOLES INTL AT GALVESTON				

	1	2	3	4	5	6	7	8	9	0	1	2	3
SEGMENT	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP KGLSK4DWAILN25ALL	010GTARRK4EA0E		IF						18000			
	SUSAP KGLSK4DWAILN25ALL	020WEEDK4EA0E		010TF									
	SUSAP KGLSK4DWAILN25ALL	030WAILNK4EA0EE		010TF									

	1	2	3	4	5	6	7	8	9	0	1	2	3
RUNWAY	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP KGLSK4GRW14	0060001381	N29161818W094520353+0000					-0024800005000053150IIGLS1					
	SUSAP KGLSK4GRW18	0060011789	N29162461W094513265+0000					-0024900006000044150R					
	SUSAP KGLSK4GRW32	0060003181	N29153260W094512009+0000					-0025100005000046150R					
	SUSAP KGLSK4GRW36	0060013589	N29152521W094513367+0000					-0025200005000045150R					



**DEPARTURE (DATA RECORD)**

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WAILN (RNAV)	TWO	WAILN2.WAILN	ONE	07/29/2010	22 AUG 2013

## ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	ALL	GTARR	010		IF		FB					
	ALL	WEEED	020		TF		FB	1.0				
	ALL	WAILN	030		TF		FB	1.0				

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	GTARR	N294600.23	W0960107.72	N2946.004	W09601.129
	WAILN	N294829.63	W0963417.12	N2948.494	W09634.285
	WEEED	N294645.14	W0961054.94	N2946.752	W09610.916
	RW14	N291618.18	W0945203.53	N2916.303	W09452.059
	RW18	N291624.61	W0945132.65	N2916.410	W09451.544
	RW32	N291532.60	W0945120.09	N2915.543	W09451.335
	RW36	N291525.21	W0945133.67	N2915.420	W09451.561

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW14	00005	53
	RW18	00006	44
	RW32	00005	46
	RW36	00005	45



## DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WAILN (RNAV)	TWO	WAILN2.WAILN	ONE	07/29/2010	22 AUG 2013

ARINC PACKET - 424-18 - SID

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

**DEPARTURE (DATA RECORD)**

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WAILN (RNAV)	TWO	WAILN2.WAILN	ONE	07/29/2010	22 AUG 2013

## ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	ALL	GTARR	010		IF		FB					
	ALL	WEEED	020		TF		FB	1.0				
	ALL	WAILN	030		TF		FB	1.0				

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	GTARR	N294600.23	W0960107.72	N2946.004	W09601.129
	WAILN	N294829.63	W0963417.12	N2948.494	W09634.285
	WEEED	N294645.14	W0961054.94	N2946.752	W09610.916
	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	58
	RW12L	00045	60
	RW12R	00046	49
	RW17	00045	40
	RW22	00039	52
	RW30L	00042	58
	RW30R	00040	50
	RW35	00043	41



### DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WAILN (RNAV)	TWO	WAILN2.WAILN	ONE	07/29/2010	22 AUG 2013

ARINC PACKET - 424-18 - SID

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

**DEPARTURE (DATA RECORD)**

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WAILN (RNAV)	TWO	WAILN2.WAILN	ONE	07/29/2010	22 AUG 2013

## ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG:(TRUE)	DISTANCE	ALTITUDE	SPEED
	ALL	GTARR	010		IF		FB					
	ALL	WEEED	020		TF		FB	1.0				
	ALL	WAILN	030		TF		FB	1.0				

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	GTARR	N294600.23	W0960107.72	N2946.004	W09601.129
	WAILN	N294829.63	W0963417.12	N2948.494	W09634.285
	WEEED	N294645.14	W0961054.94	N2946.752	W09610.916
	RW08L	N300025.78	W0952131.65	N3000.430	W09521.528
	RW08R	N295936.30	W0952117.87	N2959.605	W09521.298
	RW09	N295839.34	W0952002.79	N2958.656	W09520.047
	RW15L	N295916.40	W0952128.33	N2959.273	W09521.472
	RW15R	N295916.11	W0952141.04	N2959.269	W09521.684
	RW26L	N295936.38	W0951930.96	N2959.606	W09519.516
	RW26R	N300025.86	W0951949.29	N3000.431	W09519.822
	RW27	N295839.41	W0951809.09	N2958.657	W09518.152
	RW33L	N295748.75	W0952047.58	N2957.813	W09520.793
	RW33R	N295731.55	W0952024.19	N2957.526	W09520.403

## RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW08L	00091	59
RW08R	00095	55
RW09	00091	50
RW15L	00095	58
RW15R	00096	54
RW26L	00093	56
RW26R	00095	59
RW27	00085	55
RW33L	00087	59
RW33R	00086	49



## DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WAILN (RNAV)	TWO	WAILN2.WAILN	ONE	07/29/2010	22 AUG 2013

ARINC PACKET - 424-18 - SID

	1	2	3	4	5	6	7	8	9	0	1	2	3
WP	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAEAENRT	GTARR K40	W	L	N29460023W096010772			E0034	NAR		GTARR		
	SUSAEAENRT	WAILN K40	W	L	N29482963W096341712			E0037	NAR		WAILN		
	SUSAEAENRT	WEED K40	W	L	N29464514W096105494			E0035	NAR		WEED		

	1	2	3	4	5	6	7	8	9	0	1	2	3
AIRPORT	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP KIWSK4AIWS	0	039YHN29490550W095402140E005000111					1800018000C	MNAR		WEST HOUSTON		

	1	2	3	4	5	6	7	8	9	0	1	2	3
SEGMENT	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP KIWSK4DWAILN25ALL	010GTARRK4EA0E		IF						18000			
	SUSAP KIWSK4DWAILN25ALL	020WEEDK4EA0E		010TF									
	SUSAP KIWSK4DWAILN25ALL	030WAILNK4EA0EE		010TF									

	1	2	3	4	5	6	7	8	9	0	1	2	3
RUNWAY	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP KIWSK4GRW15	0039531497	N29492317W095403097+0000					+0006100111000045075R					
	SUSAP KIWSK4GRW33	0039533297	N29484780W095401178+0000					+0005500109000045075R					



**DEPARTURE (DATA RECORD)**

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WAILN (RNAV)	TWO	WAILN2.WAILN	ONE	07/29/2010	22 AUG 2013

## ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ALL	GTARR	010		IF		FB					
	ALL	WEEED	020		TF		FB	1.0				
	ALL	WAILN	030		TF		FB	1.0				

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	GTARR	N294600.23	W0960107.72	N2946.004	W09601.129
	WAILN	N294829.63	W0963417.12	N2948.494	W09634.285
	WEEED	N294645.14	W0961054.94	N2946.752	W09610.916
	RW15	N294923.17	W0954030.97	N2949.386	W09540.516
	RW33	N294847.80	W0954011.78	N2948.797	W09540.196

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW15	00111	45
	RW33	00109	45





### DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WAILN (RNAV)	TWO	WAILN2.WAILN	ONE	07/29/2010	22 AUG 2013

ARINC PACKET - 424-18 - SID

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KL	BXX4	DW	AILN	25	ALL	010	G	TARR	K4	EA	0E	IF
SUSAP	KL	BXX4	DW	AILN	25	ALL	020	W	EEDD	K4	EA	0E	010TF
SUSAP	KL	BXX4	DW	AILN	25	ALL	030	W	AILN	K4	EA	0E	010TF

[illegible]

**DEPARTURE (DATA RECORD)**

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WAILN (RNAV)	TWO	WAILN2.WAILN	ONE	07/29/2010	22 AUG 2013

## ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	ALL	GTARR	010		IF		FB					
	ALL	WEEED	020		TF		FB	1.0				
	ALL	WAILN	030		TF		FB	1.0				

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	GTARR	N294600.23	W0960107.72	N2946.004	W09601.129
	WAILN	N294829.63	W0963417.12	N2948.494	W09634.285
	WEEED	N294645.14	W0961054.94	N2946.752	W09610.916
	RW17	N290705.76	W0952743.59	N2907.096	W09527.727
	RW35	N290556.47	W0952743.49	N2905.941	W09527.725

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW17	00025	52
	RW35	00024	50

## DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WAILN (RNAV)	TWO	WAILN2.WAILN	ONE	07/29/2010	22 AUG 2013

ARINC PACKET - 424-18 - SID

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

**DEPARTURE (DATA RECORD)**

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WAILN (RNAV)	TWO	WAILN2.WAILN	ONE	07/29/2010	22 AUG 2013

## ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	ALL	GTARR	010		IF		FB					
	ALL	WEEED	020		TF		FB	1.0				
	ALL	WAILN	030		TF		FB	1.0				

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	GTARR	N294600.23	W0960107.72	N2946.004	W09601.129
	WAILN	N294829.63	W0963417.12	N2948.494	W09634.285
	WEEED	N294645.14	W0961054.94	N2946.752	W09610.916
	RW17	N293755.81	W0953926.90	N2937.930	W09539.448
	RW35	N293700.21	W0953921.64	N2937.004	W09539.361

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW17	00082	52
	RW35	00075	56



## DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WAILN (RNAV)	TWO	WAILN2.WAILN	NONE	07/29/2010	22 AUG 2013

ARINC PACKET - 424-18 - SID

	1	2	3	4	5	6	7	8	9	0	1	2	3
WP	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAEAENRT	GTARR K40	W	L	N29460023W096010772				E0034	NAR		GTARR		
SUSAEAENRT	WAILN K40	W	L	N29482963W096341712				E0037	NAR		WAILN		
SUSAEAENRT	WEED K40	W	L	N29464514W096105494				E0035	NAR		WEED		

	1	2	3	4	5	6	7	8	9	0	1	2	3
AIRPORT	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAP T41 K4AT41	0		041YHN29400930W095035110E005000025					1800018000C	MNAR		LA PORTE MUNI		

	1	2	3	4	5	6	7	8	9	0	1	2	3
SEGMENT	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAP T41 K4DWAILN25ALL	010GTARRK4EA0E		IF							18000			
SUSAP T41 K4DWAILN25ALL	020WEEDK4EA0E		010TF										
SUSAP T41 K4DWAILN25ALL	030WAILNK4EA0EE		010TF										

	1	2	3	4	5	6	7	8	9	0	1	2	3
RUNWAY	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAP T41 K4GRW05	0029980463	N29400036W095040390+0000		-0019900023000050075D									
SUSAP T41 K4GRW12	0041651212	N29402007W095040882+0000		-0019700025019045075V									
SUSAP T41 K4GRW23	0029982264	N29401890W095033736+0000		-0020000024000050075D									
SUSAP T41 K4GRW30	0041653012	N29395919W095033612+0000		-0019800024040240075R									

**DEPARTURE (DATA RECORD)**

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WAILN (RNAV)	TWO	WAILN2.WAILN	NONE	07/29/2010	22 AUG 2013

## ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ALL	GTARR	010		IF		FB					
	ALL	WEEED	020		TF		FB	1.0				
	ALL	WAILN	030		TF		FB	1.0				

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	GTARR	N294600.23	W0960107.72	N2946.004	W09601.129
	WAILN	N294829.63	W0963417.12	N2948.494	W09634.285
	WEEED	N294645.14	W0961054.94	N2946.752	W09610.916
	RW05	N294000.36	W0950403.90	N2940.006	W09504.065
	RW12	N294020.07	W0950408.82	N2940.335	W09504.147
	RW23	N294018.90	W0950337.36	N2940.315	W09503.623
	RW30	N293959.19	W0950336.12	N2939.987	W09503.602

## RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW05	00023	50
RW12	00025	45
RW23	00024	50
RW30	00024	40

