

**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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
GIFFA	SEVEN	GIFFA7.GIFFA	SIX	3/5/2015	<b>10 DEC 2015</b>

**TYPE:** SID

**DP ROUTE DESCRIPTION:**

DEPARTING GEORGE BUSH INTERCONTINENTAL/HOUSTON: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO MONNT INT, MAINTAIN 16000. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE; THENCE ...

DEPARTING WILLIAM P. HOBBY: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO MONNT INT, MAINTAIN 16000. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE, THENCE ...

DEPARTING ELLINGTON FIELD: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO MONNT INT, MAINTAIN 4000. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE, THENCE ...

ALL OTHER AIRPORTS: WHEN ENTERING CONTROLLED AIRSPACE, CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO MONNT INT, MAINTAIN 4000. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE, THENCE ...

ON IAH R-358 TO CROSS GIFFA INT AT OR ABOVE 8500.

**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: RADAR REQUIRED.

NOTE: FOR AIRCRAFT DESTINED FOR THE DFW 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 200FT 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 - AIRTRAFFIC.

**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.



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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. HOBBY:** 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, 33FT 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 AGL/96

QUALITY  
17  
CHECKED

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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.

**SCHOLES 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:**

GEORGE BUSH INTERCONTINENTAL/HOUSTON – CHART: TOP ALTITUDE: 16000  
WILLIAM P. HOBBY – CHART: TOP ALTITUDE: 16000  
ELLINGTON FIELD – CHART: TOP ALTITUDE: 4000  
LONE STAR EXECUTIVE – CHART: TOP ALTITUDE: 4000  
DAVID WAYNE HOOKS MEMORIAL – CHART: TOP ALTITUDE: 4000  
SUGAR LAND RGNL – CHART: TOP ALTITUDE: 4000  
HOUSTON-SOUTHWEST – CHART: TOP ALTITUDE: 4000  
HOUSTON EXECUTIVE – CHART: TOP ALTITUDE: 4000  
WEST HOUSTON – CHART: TOP ALTITUDE: 4000  
SCHOLLES INTL AT GALVESTON – CHART: TOP ALTITUDE: 4000  
TEXAS GULF COAST RGNL – CHART: TOP ALTITUDE: 4000  
LA PORTE MUNI – CHART: TOP ALTITUDE: 4000

**AIRPORTS SERVED:**

GEORGE BUSH INTERCONTINENTAL/HOUSTON	HOUSTON, TX
WILLIAM P. HOBBY	HOUSTON, TX
ELLINGTON FIELD	HOUSTON, TX
LONE STAR EXECUTIVE	HOUSTON, TX
DAVID WAYNE HOOKS MEMORIAL	HOUSTON, TX
SUGAR LAND RGNL	HOUSTON, TX
HOUSTON-SOUTHWEST	HOUSTON, TX
HOUSTON EXECUTIVE	HOUSTON, TX
WEST HOUSTON	HOUSTON, TX
SCHOLLES INTL AT GALVESTON	GALVESTON, TX
TEXAS GULF COAST RGNL	ANGLETON/LAKE JACKSON, TX
LA PORTE MUNI	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: GIFFA INT (LOA R-059 & CQY R-128), BUMCO INT (LOA R-121), MONNT INT (DAS R-292).

**REMARKS:**

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**CHANGES:**

1. CHANGED HOU MAINTAIN AND TOP ALTITUDE FROM 5000 TO 16000.
2. CHANGED IAH MAINTAIN AND TOP ALTITUDE FROM 4000 TO 16000.

**REASONS:**

- 1,2. ATC REQUEST



## DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
<b>GIFFA</b>	<b>SEVEN</b>	<b>GIFFA7.GIFFA</b>	<b>SIX</b>	<b>3/5/2015</b>	<b>10 DEC 2015</b>

ARINC SUMMARY - KAXH

## ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
ALL	010	MONNT	IF	FB										E
ALL	020	BUMCO	TF	FB										E
ALL	030	GIFFA	TF	FB								AA 08500		EE

## POINTS

POINT NAME	LATITUDE	LONGITUDE
BUMCO	N303854.38	W0951801.51
GIFFA	N312253.23	W0951506.11
MONNT	N302838.94	W0951842.06

## RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION
RW09	N293023.91	W0952905.10	00069
RW27	N293020.25	W0952808.65	00066



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ARINC SUMMARY - KCXO

## ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
ALL	010	MONNT	IF	FB										E
ALL	020	BUMCO	TF	FB										E
ALL	030	GIFFA	TF	FB								AA 08500		EE

## POINTS

POINT NAME	LATITUDE	LONGITUDE
BUMCO	N303854.38	W0951801.51
GIFFA	N312253.23	W0951506.11
MONNT	N302838.94	W0951842.06

## RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION
RW01	N302044.23	W0952510.12	00230
RW14	N302145.72	W0952513.62	00234
RW19	N302131.51	W0952453.28	00229
RW32	N302044.54	W0952425.10	00241



## DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
GIFFA	SEVEN	GIFFA7.GIFFA	SIX	3/5/2015	10 DEC 2015

ARINC SUMMARY - KDWH

## ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
RW17R	010	MONNT	IF	FB										E
RW17R	020	BUMCO	TF	FB										E
RW17R	030	GIFFA	TF	FB								AA 08500		EE
RW35L	010	MONNT	IF	FB										E
RW35L	020	BUMCO	TF	FB										E
RW35L	030	GIFFA	TF	FB								AA 08500		EE

## POINTS

POINT NAME	LATITUDE	LONGITUDE
BUMCO	N303854.38	W0951801.51
GIFFA	N312253.23	W0951506.11
MONNT	N302838.94	W0951842.06

## RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION
RW17R	N300414.04	W0953315.88	00152
RW35L	N300315.10	W0953307.27	00145





## DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
GIFFA	SEVEN	GIFFA7.GIFFA	SIX	3/5/2015	10 DEC 2015

ARINC SUMMARY - KEFD

### ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
ALL	010	MONNT	IF	FB										E
ALL	020	BUMCO	TF	FB										E
ALL	030	GIFFA	TF	FB								AA 08500		EE

### POINTS

POINT NAME	LATITUDE	LONGITUDE
BUMCO	N303854.38	W0951801.51
GIFFA	N312253.23	W0951506.11
MONNT	N302838.94	W0951842.06

### RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION
RW04	N293553.43	W0950946.76	00026
RW17L	N293706.49	W0950922.35	00031
RW17R	N293705.99	W0950951.82	00032
RW22	N293650.54	W0950843.97	00030
RW35L	N293536.91	W0950949.75	00028
RW35R	N293620.87	W0950921.30	00030



## DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
GIFFA	SEVEN	GIFFA7.GIFFA	SIX	3/5/2015	10 DEC 2015

ARINC SUMMARY - KGLS

## ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
ALL	010	MONNT	IF	FB										E
ALL	020	BUMCO	TF	FB										E
ALL	030	GIFFA	TF	FB								AA 08500		EE

## POINTS

POINT NAME	LATITUDE	LONGITUDE
BUMCO	N303854.38	W0951801.51
GIFFA	N312253.23	W0951506.11
MONNT	N302838.94	W0951842.06

## RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION
RW14	N291618.18	W0945203.53	00005
RW18	N291624.61	W0945132.65	00006
RW32	N291532.60	W0945120.09	00005
RW36	N291525.21	W0945133.66	00005



## DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
GIFFA	SEVEN	GIFFA7.GIFFA	SIX	3/5/2015	10 DEC 2015

ARINC SUMMARY - KHOU

## ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
ALL	010	MONNT	IF	FB										E
ALL	020	BUMCO	TF	FB										E
ALL	030	GIFFA	TF	FB								AA 08500		EE

## POINTS

POINT NAME	LATITUDE	LONGITUDE
BUMCO	N303854.38	W0951801.51
GIFFA	N312253.23	W0951506.11
MONNT	N302838.94	W0951842.06

## RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION
RW04	N293820.80	W0951707.16	00042
RW12L	N293909.39	W0951701.94	00045
RW12R	N293856.27	W0951659.41	00046
RW17	N293908.50	W0951704.80	00045
RW22	N293914.97	W0951607.36	00039
RW30L	N293811.14	W0951605.85	00041
RW30R	N293834.02	W0951619.93	00040
RW35	N293809.12	W0951703.55	00043

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12  
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## DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
GIFFA	SEVEN	GIFFA7.GIFFA	SIX	3/5/2015	10 DEC 2015

ARINC SUMMARY - KIAH

## ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
ALL	010	MONNT	IF	FB										E
ALL	020	BUMCO	TF	FB										E
ALL	030	GIFFA	TF	FB								AA 08500		EE

## POINTS

POINT NAME	LATITUDE	LONGITUDE
BUMCO	N303854.38	W0951801.51
GIFFA	N312253.23	W0951506.11
MONNT	N302838.94	W0951842.06

## RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION
RW08L	N300025.78	W0952131.65	00091
RW08R	N295936.30	W0952117.87	00095
RW09	N295839.34	W0952002.79	00091
RW15L	N295916.40	W0952128.33	00095
RW15R	N295916.11	W0952141.04	00096
RW26L	N295936.38	W0951930.96	00093
RW26R	N300025.86	W0951949.29	00095
RW27	N295839.41	W0951809.09	00085
RW33L	N295748.75	W0952047.58	00087
RW33R	N295731.55	W0952024.19	00086



**DEPARTURE (DATA RECORD)**

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
<b>GIFFA</b>	<b>SEVEN</b>	<b>GIFFA7.GIFFA</b>	<b>SIX</b>	<b>3/5/2015</b>	<b>10 DEC 2015</b>

ARINC SUMMARY - KIWS

## ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
ALL	010	MONNT	IF	FB										E
ALL	020	BUMCO	TF	FB										E
ALL	030	GIFFA	TF	FB								AA 08500		EE

## POINTS

POINT NAME	LATITUDE	LONGITUDE
BUMCO	N303854.38	W0951801.51
GIFFA	N312253.23	W0951506.11
MONNT	N302838.94	W0951842.06

## RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION
RW15	N294923.17	W0954030.97	00111
RW33	N294847.80	W0954011.78	00109



**DEPARTURE (DATA RECORD)**

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
<b>GIFFA</b>	<b>SEVEN</b>	<b>GIFFA7.GIFFA</b>	<b>SIX</b>	<b>3/5/2015</b>	<b>10 DEC 2015</b>

ARINC SUMMARY - KLBX

## ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
ALL	010	MONNT	IF	FB										E
ALL	020	BUMCO	TF	FB										E
ALL	030	GIFFA	TF	FB								AA 08500		EE

## POINTS

POINT NAME	LATITUDE	LONGITUDE
BUMCO	N303854.38	W0951801.51
GIFFA	N312253.23	W0951506.11
MONNT	N302838.94	W0951842.06

## RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION
RW17	N290705.76	W0952743.59	00025
RW35	N290556.47	W0952743.49	00024



## DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
<b>GIFFA</b>	<b>SEVEN</b>	<b>GIFFA7.GIFFA</b>	<b>SIX</b>	<b>3/5/2015</b>	<b>10 DEC 2015</b>

ARINC SUMMARY - KSGR

## ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
ALL	010	MONNT	IF	FB										E
ALL	020	BUMCO	TF	FB										E
ALL	030	GIFFA	TF	FB								AA 08500		EE

## POINTS

POINT NAME	LATITUDE	LONGITUDE
BUMCO	N303854.38	W0951801.51
GIFFA	N312253.23	W0951506.11
MONNT	N302838.94	W0951842.06

## RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION
RW17	N293755.81	W0953926.90	00082
RW35	N293700.21	W0953921.64	00075



## DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
<b>GIFFA</b>	<b>SEVEN</b>	<b>GIFFA7.GIFFA</b>	<b>SIX</b>	<b>3/5/2015</b>	<b>10 DEC 2015</b>

ARINC SUMMARY - T41

## ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
ALL	010	MONNT	IF	FB										E
ALL	020	BUMCO	TF	FB										E
ALL	030	GIFFA	TF	FB								AA 08500		EE

## POINTS

POINT NAME	LATITUDE	LONGITUDE
BUMCO	N303854.38	W0951801.51
GIFFA	N312253.23	W0951506.11
MONNT	N302838.94	W0951842.06

## RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION
RW05	N294000.36	W0950403.90	00023
RW12	N294020.07	W0950408.82	00025
RW23	N294018.90	W0950337.36	00024
RW30	N293959.19	W0950336.12	00024





**DEPARTURE (DATA RECORD)**

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
<b>GIFFA</b>	<b>SEVEN</b>	<b>GIFFA7.GIFFA</b>	<b>SIX</b>	<b>3/5/2015</b>	<b>10 DEC 2015</b>

ARINC SUMMARY - KTME

## ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
ALL	010	MONNT	IF	FB										E
ALL	020	BUMCO	TF	FB										E
ALL	030	GIFFA	TF	FB								AA 08500		EE

## POINTS

POINT NAME	LATITUDE	LONGITUDE
BUMCO	N303854.38	W0951801.51
GIFFA	N312253.23	W0951506.11
MONNT	N302838.94	W0951842.06

## RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION
RW18	N294850.85	W0955352.86	00166
RW36	N294745.40	W0955351.88	00163

