

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
JUNCTION	ONE	JCT1.JCT	NINE	12/10/2015	22 JUN 2017
<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DP ROUTE DESCRIPTION:**DEPARTING GEORGE BUSH INTERCONTINENTAL/HOUSTON (KIAH)****ALL RUNWAYS:** CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO CUZZZ INT. MAINTAIN 16000. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE. THENCE..**ALL OTHER AIRPORTS****ALL RUNWAYS:** WHEN ENTERING CONTROLLED AIRSPACE, CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO CUZZZ INT. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE, THENCE ...

... ON IAH R-276 AND JCT R-090 TO JCT VORTAC.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

<u>TRANSITION NAME</u>	<u>TRANSITION COMPUTER CODE</u>	<u>FROM FIX/NAVAID</u>	<u>TO FIX/NAVAID</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>MEA</u>	<u>MOCA</u>	<u>CROSSING ALTITUDE/FIXES</u>
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PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED.

NOTE: FOR AIRCRAFT OVERFLYING JCT VORTAC ON J86 FILING FL240 OR ABOVE.

TAKEOFF MINIMUMS:**GEORGE BUSH INTERCONTINENTAL/HOUSTON (KIAH)**

RWY 8L, 8R, 9, 27, 15L, 15R, 26L, 26R, 33L, 33R STANDARD.

CONROE-NORTH HOUSTON RGNL (KCXO)

RWY 1, 14, 19, 32 STANDARD.

DAVID WAYNE HOOKS MEMORIAL (KDWH)

RWY 17L, 35R NA - ENVIRONMENTAL.

WATERWAY 17, 35 NA - AIR TRAFFIC.

RWY 17R, 35L STANDARD.

TAKEOFF OBSTACLES NOTES:**GEORGE BUSH INTERCONTINENTAL/HOUSTON (KIAH)****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.**CONROE-NORTH HOUSTON RGNL (KCXO)****NOTE: RWY 01:** TREE 829 FT FROM DER, 548 FT RIGHT OF CENTERLINE, 297 FT MSL. TREE 1252 FT FROM DER, 553 FT RIGHT OF CENTERLINE, 312 FT MSL. TREES BEGINNING 1609 FT FROM DER, 300 FT LEFT OF CENTERLINE, UP TO 322 FT MSL. TREES BEGINNING 3635 FT FROM DER, 464 FT LEFT OF CENTERLINE, UP TO 327 FT MSL. TREE 3830 FT FROM DER, 580 FT RIGHT OF

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CENTERLINE, 347 FT MSL. TREE 4658 FT FROM DER, 135 FT RIGHT OF CENTERLINE, 348 FT MSL.

NOTE: RWY 14: NAVAID 399 FT FROM DER, 266 FT RIGHT OF CENTERLINE, 20 FT AGL/255 FT MSL. TREE 1478 FT FROM DER, 691 FT RIGHT OF CENTERLINE, 291 FT MSL. TREE 1653 FT FROM DER, 682 FT LEFT OF CENTERLINE, 294 FT MSL. TREE 2129 FT FROM DER, 80 FT RIGHT OF CENTERLINE, 306 FT MSL. TREE 2153 FT FROM DER, 407 FT LEFT OF CENTERLINE, 300 FT MSL.

NOTE: RWY 19: TREE 1 FT FROM DER, 474 FT LEFT OF CENTERLINE, 292 FT MSL. TREES BEGINNING 16 FT FROM DER, 264 FT LEFT OF CENTERLINE, UP TO 295 FT MSL. TREE 67 FT FROM DER, 322 FT RIGHT OF CENTERLINE, 263 FT MSL. TREES BEGINNING 855 FT FROM DER, 324 FT RIGHT OF CENTERLINE, UP TO 303 FT MSL. TREES BEGINNING 2139 FT FROM DER, 65 FT RIGHT OF CENTERLINE, UP TO 316 FT MSL. TREES BEGINNING 2365 FT FROM DER, 331 FT LEFT OF CENTERLINE, UP TO 312 FT MSL. TREES BEGINNING 2475 FT FROM DER, 158 FT LEFT OF CENTERLINE, UP TO 315 FT MSL. TREE 3423 FT FROM DER, 123 FT RIGHT OF CENTERLINE, 323 FT MSL.

DAVID WAYNE HOOKS MEMORIAL (KDWH)

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.

CONTROLLING OBSTACLES:

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

CHART: PUFER INT TO SPURS INT (MEA FL240).

GEORGE BUSH INTERCONTINENTAL/HOUSTON (KIAH) – CHART: TOP ALTITUDE: 16000
DAVID WAYNE HOOKS MEMORIAL (KDWH) – CHART: TOP ALTITUDE: ASSIGNED BY ATC.
CONROE-NORTH HOUSTON RGNL (KCXO) – CHART: TOP ALTITUDE: ASSIGNED BY ATC.

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
GEORGE BUSH INTERCONTINENTAL/HOUSTON (KIAH)	HOUSTON	TX
CONROE-NORTH HOUSTON RGNL (KCXO)	HOUSTON	TX
DAVID WAYNE HOOKS MEMORIAL (KDWH)	HOUSTON	TX

COMMUNICATIONS:

ATIS: IAH, CXO, DWH.

AWOS/ASOS: IAH, CXO, DWH.

CTAF: CXO, DWH

CLNC DEL: IAH, CXO, DWH.

DEP CON: IAH, CXO, DWH.

GND CON: IAH, CXO, DWH.

TWR: IAH, CXO, DWH.



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FIXES AND/OR NAVAIDS:

CHART: CLL R-155 AT ZUUUU; PUFER/IAH 91.45 DME; SAT R-359 AT SPURS INT; CLL R-142 AT CUZZZ; SAT R-056 AT PUFER.
CHART: J86 BETWEEN JCT VORTAC AND PUFER INT.

REMARKS:

ABBREVIATED AMENDMENT

FLIGHT INSPECTED BY:

MARC J HINCK

*Digitally signed by***JOHNNIE BAKER**

Apr 04, 2017

OFFICE SYMBOL:

FICO

DATE:

03/02/2017

DEVELOPED BY:

BRIAN J BICKETT

*Digitally signed by***BRIAN J BICKETT**

Feb 03, 2017

OFFICE SYMBOL:

AJV-5422

DATE:

02/03/2017

APPROVED BY:

JULIE MORGAN

*Digitally signed by***STEVEN A VARGAS**

Feb 16, 2017

OFFICE SYMBOL:

AJV-5420

DATE:**REQUIRED EFFECTIVE DATE:**

ROUTINE

COORDINATED WITH:**A4A****ALPA****AOPA****APA****HAI****NBAA****OTHER:**

ZHU, HOU APP CON, IAH ATCT, DWH ATCT, ST. AV. DIR., AMGRS: IAH, DWH, CXO.

CHANGES - REASONS:

- AIRPORT NAME CHANGED FROM LONE STAR EXECUTIVE TO CONROE-NORTH HOUSTON RGNL (KCXO) - TEXAS DEPARTMENT OF TRANSPORTATION REQUEST.
- DP ROUTE DESCRIPTION AT ALL OTHER AIRPORTS: CHANGED FROM "MAINTAIN 4000" TO "MAINTAIN ATC ASSIGNED ALTITUDE" - TOP ALTITUDE CHANGED TO ASSIGNED BY ATC.
- CHANGED DP ROUTE DESCRIPTION FROM "VIA IAH R-276 AND JCT R-090 TO JCT VORTAC" TO "ON IAH R-276 AND JCT R-090 TO JCT VORTAC" - PER CURRENT DOCUMENTATION CRITERIA, CHANGED "VIA" TO "ON".
- CHANGED PROCEDUREAL DATA NOTE FROM "FOR AIRCRAFT OVERFLYING JCT VORTAC VIA J86 FILING FL.240 OR ABOVE" TO "FOR AIRCRAFT OVERFLYING JCT VORTAC ON J86 FILING FL.240 OR ABOVE" - PER CURRENT DOCUMENTATION CRITERIA, CHANGED "VIA" TO "ON".
- TAKEOFF OBSTACLE NOTES AT CONROE-NORTH HOUSTON RGNL (KCXO): UPDATED RWY 1, 14, 19 OBSTACLES - NEW SURVEY DATA.
- TAKEOFF OBSTACLE NOTES AT CONROE-NORTH HOUSTON RGNL (KCXO): REMOVED RWY 32 NOTE - NO OBSTACLES PENETRATE THE ICA.
- ADDITIONAL FLIGHT DATA: ADDED CHART: PUFER INT TO SPURS INT (MEA FL240) - ADDED MEA PER 8260.46F.
- ADDITIONAL FLIGHT DATA: TOP ALTITUDES AT DAVID WAYNE HOOKS MEMORIAL (KDW) AND CONROE-NORTH HOUSTON RGNL (KCXO) CHANGED FROM 4000 TO "ASSIGNED BY ATC" - PER AIR TRAFFIC REQUEST.
- COMMUNICATIONS: ADDED CXO TO AWOS/ASOS - CXO HAS ASOS.
- COMMUNICATIONS: ADDED CTAF: CXO, DWH - CTAF FREQUENCY AVAILABLE AT THESE AIRPORTS.

QUALITY
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CHECKED