

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

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|----------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|
| INDUSTRY | NINE | IDU9.IDU | EIGHT | 11/10/2016 | 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"/> |

This is a corrected copy of the procedure published in NFDD 068. *See page 9 for details.*****

DP ROUTE DESCRIPTION:

DEPARTING GEORGE BUSH INTERCONTINENTAL/HOUSTON (KIAH)

ALL RUNWAYS: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO SHYNR INT, MAINTAIN 16000. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE, THENCE...

DEPARTING WILLIAM P HOBBY (KHOU)

RWY 4, 13L, 13R, 22, 35: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO SHYNR INT, MAINTAIN 16000. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE, THENCE...

RWY 17: CLIMB HEADING 175.94 TO 700 BEFORE TURNING, THEN CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO SHYNR INT, MAINTAIN 16000. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE, THENCE...

RWY 31L: CLIMB HEADING 310.96 TO 800 BEFORE TURNING, THEN CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO SHYNR INT, MAINTAIN 16000. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE, THENCE...

RWY 31R: CLIMB HEADING 310.94 TO 800 BEFORE TURNING, THEN CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO SHYNR INT, MAINTAIN 16000. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE, THENCE...

DEPARTING ELLINGTON (KEFD)

ALL RUNWAYS: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO SHYNR INT. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE, THENCE...

SUGAR LAND RGNL (KSGR)

RWY 17: CLIMB HEADING 170.28 TO 1500 BEFORE TURNING. WHEN ENTERING CONTROLLED AIRSPACE, CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO SHYNR INT. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE, THENCE...

RWY 35: CLIMB HEADING 350.28 TO 1100 BEFORE TURNING. WHEN ENTERING CONTROLLED AIRSPACE, CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO SHYNR INT. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE, THENCE...

HOUSTON-SOUTHWEST (KAXH)

RWY 9: CLIMB HEADING 089.22 TO 2000 BEFORE TURNING. WHEN ENTERING CONTROLLED AIRSPACE, CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO SHYNR INT. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE, THENCE...

RWY 27: CLIMB HEADING 269.23 TO 2200 BEFORE TURNING. WHEN ENTERING CONTROLLED AIRSPACE, CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO SHYNR INT. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE, THENCE...

HOUSTON EXECUTIVE (KTME)

RWY 18: WHEN ENTERING CONTROLLED AIRSPACE, CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO SHYNR INT. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE, THENCE...

RWY 36: CLIMB HEADING 355.25 TO 700 BEFORE TURNING. WHEN ENTERING CONTROLLED AIRSPACE, CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO SHYNR INT. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE, THENCE...

SCHOLES INTL AT GALVESTON (KGLS)

RWY 14, 18, 36: WHEN ENTERING CONTROLLED AIRSPACE, CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO SHYNR INT. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE, THENCE...

RWY 32: CLIMB HEADING 318.12 TO 800 BEFORE TURNING. WHEN ENTERING CONTROLLED AIRSPACE, CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO SHYNR INT. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE, THENCE...

LA PORTE MUNI (KT41)

RWY 05: CLIMB HEADING 046.34 TO 500 BEFORE TURNING. WHEN ENTERING CONTROLLED AIRSPACE, CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO SHYNR INT. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE, THENCE...

RWY 12: CLIMB HEADING 121.17 TO 500 BEFORE TURNING. WHEN ENTERING CONTROLLED AIRSPACE, CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO SHYNR INT. MAINTAIN ATC

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ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE, THENCE...

RWY 23: WHEN ENTERING CONTROLLED AIRSPACE, CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO SHYNR INT. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE, THENCE...

RWY 30: CLIMB HEADING 301.18 TO 700 BEFORE TURNING. WHEN ENTERING CONTROLLED AIRSPACE, CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO SHYNR INT. MAINTAIN ATC ASSIGNED ALTITUDE. 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 SHYNR INT. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE, THENCE...

...ON IDU R-085 TO BOCK INT, THEN ON IDU R-085 TO IDU 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> |
|------------------------|-------------------------------------|----------------------------|--------------------------|---|-----------------|------------|-------------|------------------------------------|
| JUNCTION | IDU9.JCT | IDU VORTAC | JCT VORTAC | 275.62 & 273.98 (IDU R-276 & JCT R-094) | 173.43 | 10000 | | |
| CENTEX | IDU9.CWK | IDU VORTAC | CWK VORTAC | 288.92 & 290.43 (IDU R-289 & CWK R-110) | 56.32 | 10000 | | |
| CORPUS CHRISTI | IDU9.CRP | IDU VORTAC | MARCS INT | 259.38 (IDU R-259) | 67.82 | 10000 | | |
| | | | SAT VORTAC | 235.99 (SAT R-056) | 34.82 | FL180 | | |
| | | | CRP VORTAC | 144.52 & 144.01 (SAT R-145 & CRP R-324) | 117.12 | FL180 | | |
| LAREDO | IDU9.LRD | IDU VORTAC | MARCS INT | 259.38 (IDU R-259) | 67.82 | 10000 | | |
| | | | SAT VORTAC | 235.99 (SAT R-056) | 34.82 | FL180 | | |
| | | | LRD VORTAC | 193.53 & 192.08 (SAT R-194 & LRD R-012) | 139.08 | FL180 | | |

PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED

JUNCTION TRANSITION: FOR AIRCRAFT OVERFLYING JCT VORTAC ON J2, J15 OR J86.

CENTEX TRANSITION: ATC ASSIGNED ONLY FOR AIRCRAFT INBOUND TO THE DFW METROPLEX AREA THAT ARE BEING REROUTED DUE TO BAD WEATHER.

CORPUS CHRISTI TRANSITION: ATC ASSIGNED ONLY.

LAREDO TRANSITION: ATC ASSIGNED ONLY.

TAKEOFF MINIMUMS:

GEORGE BUSH INTERCONTINENTAL/HOUSTON (KIAH)

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

WILLIAM P HOBBY (KHOU)

RWY 13L, 13R, 31L, 31R, 35 STANDARD.

RWY 4, 300-1 OR STANDARD WITH MINIMUM CLIMB OF 270 FT PER NM TO 300.



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RWY 17, 300-1.
RWY 22, STANDARD WITH MINIMUM CLIMB OF 290 FT PER NM TO 1500.

ELLINGTON (KEFD)

RWY 4, 17L, 17R, 35L, 35R 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.

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.

SUGAR LAND RGNL (KSGR)

RWY 17, 35 STANDARD

HOUSTON-SOUTHWEST (KAXH)

RWY 9, 27 STANDARD.

HOUSTON EXECUTIVE (KTME)

RWY 18, 36 STANDARD.

WEST HOUSTON (KIWS)

RWY 15, 33, STANDARD.

SCHOLES INTL AT GALVESTON (KGLS)

RWY 14, 18, 32, 36 STANDARD.

TEXAS GULF COAST RGNL (KLBX)

RWY 17, 35 STANDARD.

LA PORTE MUNI (KT41)

RWY 5, 12, 23, 30 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.

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WILLIAM P HOBBY (KHOU)

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 13L: ANTENNA ON HANGER 1548 FT FROM DER, 424 FT LEFT OF CENTERLINE, 45 FT AGL/85 FT MSL.

NOTE: RWY 13R: 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 31L: 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 31R: 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 (KEFD)

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 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.

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.

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 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 (KDWK)

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 (KSGR)

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

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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 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 (KAXH)

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 BEG NNING 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 (KTME)

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 (KIWS)

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 FT 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 (KGLS)

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 (KLBX)

NOTE: RWY 35: TREE 1330 FT FROM DER, 797 FT LEFT OF CENTERLINE, 71 FT MSL. TREE 1404 FT FROM DER, 796 FT LEFT OF CENTERLINE, 73 FT MSL. TREES BEGINNING 1467 FT FROM DER, 788 FT LEFT OF CENTERLINE, UP TO 75 FT MSL. TREE 1474 FT FROM DER, 670 FT RIGHT OF CENTERLINE, 72 FT MSL. TREE 1516 FT FROM DER, 684 FT RIGHT OF CENTERLINE, 73 FT MSL. TREE 1578 FT FROM DER, 759 FT RIGHT OF CENTERLINE, 74 FT MSL.

LA PORTE MUNI (KT41)

NOTE: RWY 05: TREES BEGINNING 334 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 67 FT AGL/91 FT MSL. POLES BEGINNING 973 FT FROM DER, 387 FT LEFT OF CENTERLINE, UP TO 40 FT AGL/64 FT MSL. BUILDINGS BEGINNING 319 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 30 FT AGL/54 FT MSL. STACK 2.3. NM FROM DER, 3296 FT LEFT OF CENTERLINE, 300 FT AGL/334 FT MSL.

NOTE: RWY 12: POLES BEGINNING 127 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 54 FT AGL/74 FT MSL. TREES BEGINNING 183 FT FROM DER, 446 FT RIGHT OF CENTERLINE, UP TO 40 FT AGL/60 FT MSL. BUILDING 675 FT FROM DER, 411 FT RIGHT OF CENTERLINE, UP TO 32 FT AGL/55 FT MSL. TREES BEGINNING 888 FT FROM DER, 113 FT RIGHT OF CENTERLINE, UP TO 43 FT AGL/63 FT MSL.

NOTE: RWY 23: BUILDINGS BEGINNING 30 FT FROM DER, 242 FT LEFT OF CENTERLINE, UP TO 30 FT AGL/54 FT MSL. BUILDINGS BEGINNING 231 FT FROM DER, 134 FT RIGHT OF CENTERLINE, UP TO 30 FT AGL/54 FT MSL. TREES BEGINNING 243 FT FROM DER, 494 FT RIGHT OF CENTERLINE, UP TO 67 FT AGL/91 FT MSL. POLES BEGINNING 363 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 40 FT AGL/64 FT MSL. VEHICLE ON ROAD BEGINNING 493 FT FROM DER, 562 FT LEFT OF CENTERLINE, UP TO 15 FT AGL/39 FT MSL. TREES BEGINNING 573 FT FROM DER, 292

QUALITY
9
CHECKED

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FT LEFT OF CENTERLINE, UP TO 67 FT AGL/91 FT MSL. TREES BEGINNING 1123 FT FROM DER, 69 FT RIGHT OF CENTERLINE, UP TO 67 FT AGL/91 FT MSL.

NOTE: RWY 30: TREES BEGINNING 44 FT FROM DER, 331 FT RIGHT OF CENTERLINE, UP TO 51 FT AGL/71 FT MSL. POLE 114 FT FROM DER, 500 FT LEFT OF CENTERLINE, 37 FT AGL/60 FT MSL. BUILDINGS BEGINNING 334 FT FROM DER, 355 FT LEFT OF CENTERLINE, UP TO 25 FT AGL/50 FT MSL. TREES BEGINNING 367 FT FROM DER, 471 FT LEFT OF CENTERLINE, UP TO 37 FT AGL/57 FT MSL. BUILDING 669 FT FROM DER, 415 FT RIGHT OF CENTERLINE, 30 FT AGL/55 FT MSL. POLES BEGINNING 768 FT FROM DER, 427 FT RIGHT OF CENTERLINE, UP TO 50 FT AGL/74 FT MSL. TREES BEGINNING 1048 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 67 FT AGL/87 FT MSL.

CONTROLLING OBSTACLES:

WILLIAM P HOBBY (KHOU)

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, 31L, 31R: 2049 FT MSL TOWER 293430.00N/0952938.00W.

ELLINGTON (KEFD)

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

SUGAR LAND RGNL (KSGR)

RWY 17: 2049 FT MSL TOWER 293415.70N/0953038.30W.

RWY 35: 2049 FT MSL TOWER 293435.00N/0953037.00W.

HOUSTON-SOUTHWEST (KAXH)

RWY 9, 27: 2049 FT MSL TOWERS 293341.00N/0953005.00W.

HOUSTON EXECUTIVE (KTME)

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

SCHOLES INTL AT GALVESTON (KGLS)

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 32: 2013 FT MSL TOWER 291800.65N/0950640.27W.

LA PORTE MUNI (KT41)

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 05: 334 FT MSL STACK 294201.00N/0950211.00W. RWY 12: 499 FT MSL STACK 293747.00N/0950316.00W. RWY 30: 584 FT MSL TOWER 294253.26N/0950540.31W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

GEORGE BUSH INTERCONTINENTAL/HOUSTON (KIAH) - CHART: TOP ALTITUDE: 16000

WILLIAM P HOBBY (KHOU) - CHART: TOP ALTITUDE: 16000

ELLINGTON (KEFD) - CHART: TOP ALTITUDE: ASSIGNED BY ATC.

CONROE-NORTH HOUSTON RGNL (KCXO) - CHART: TOP ALTITUDE: ASSIGNED BY ATC.

DAVID WAYNE HOOKS MEMORIAL (KDWL) - CHART: TOP ALTITUDE: ASSIGNED BY ATC.

SUGAR LAND RGNL (KSGR) - CHART: TOP ALTITUDE: ASSIGNED BY ATC.

HOUSTON-SOUTHWEST (KAXH) - CHART: TOP ALTITUDE: ASSIGNED BY ATC.

HOUSTON EXECUTIVE (KTME) - CHART: TOP ALTITUDE: ASSIGNED BY ATC.

WEST HOUSTON (KIWS) - CHART: TOP ALTITUDE: ASSIGNED BY ATC.

SCHOLES INTL AT GALVESTON (KGLS) - CHART: TOP ALTITUDE: ASSIGNED BY ATC.

TEXAS GULF COAST RGNL (KLBX) - CHART: TOP ALTITUDE: ASSIGNED BY ATC.

LA PORTE MUNI (KT41) - CHART: TOP ALTITUDE: ASSIGNED BY ATC.



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AIRPORTS SERVED:

| <u>AIRPORT NAME</u> | <u>CITY</u> | <u>STATE</u> |
|---|-----------------------|--------------|
| GEORGE BUSH INTERCONTINENTAL/HOUSTON (KIAH) | HOUSTON | TX |
| WILLIAM P HOBBY (KHOU) | HOUSTON | TX |
| ELLINGTON (KEFD) | HOUSTON | TX |
| CONROE-NORTH HOUSTON RGNL (KCXO) | HOUSTON | TX |
| DAVID WAYNE HOOKS MEMORIAL (KDWH) | HOUSTON | TX |
| SUGAR LAND RGNL (KSGR) | HOUSTON | TX |
| HOUSTON-SOUTHWEST (KAXH) | HOUSTON | TX |
| HOUSTON EXECUTIVE (KTME) | HOUSTON | TX |
| WEST HOUSTON (KIWS) | HOUSTON | TX |
| SCHOLES INTL AT GALVESTON (KGLS) | GALVESTON | TX |
| TEXAS GULF COAST RGNL (KLBX) | ANGLETON/LAKE JACKSON | TX |
| LA PORTE MUNI (KT41) | LA PORTE | TX |

COMMUNICATIONS:**ATIS:** IAH, HOU, EFD, CXO, DWH.**AWOS/ASOS:** IAH, HOU, EFD, CXO, DWH, SGR, AXH, TME, GLS, LBX.**CTAF:** CXO, DWH, SGR, AXH, TME, IWS, GLS, LBX, T41.**CLNC DEL:** IAH, HOU, CXO, DWH, SGR, AXH, TME, IWS, GLS, LBX, T41.**DEP CON:** IAH, HOU, EFD, 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.**FIXES AND/OR NAVAIDS:**

CHART: SHYNR INT (IAH R-262/TNV R-170/IDU R-085), BOCK INT (IDU R-085 & TNV R-192), MARCS INT (IDU R-259/CWK R-205/STV R-105).

REMARKS:

ABBREVIATED AMENDMENT



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FLIGHT INSPECTED BY:

MARC J HINCK *Digitally signed by*
JOHNNIE BAKER

OFFICE SYMBOL:

FICO

DATE:

03/02/2017

DEVELOPED BY:

BRIAN J BICKETT *Digitally signed by*
BRIAN J BICKETT
Feb 02, 2017

OFFICE SYMBOL:

AJV-5422

DATE:

02/02/2017

APPROVED BY:

JULIE MORGAN *Digitally signed by*
JOHNNIE BAKER
May 05, 2017

OFFICE SYMBOL:

AJV-5420

DATE:**REQUIRED EFFECTIVE DATE:**

ROUTINE

COORDINATED WITH:

| | | | | | |
|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|
| A4A | ALPA | AOPA | APA | HAI | NBAA |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

OTHER:

ZHU, HOU APP CON, IAH ATCT, HOU ATCT, DWH ATCT, EFD ATCT, SGR ATCT, AMGR: IAH, HOU, EFD, SGR, AXH, IWS, TME, DWH, CXO, GLS, T41, LBX.

CHANGES - REASONS:

- AIRPORT NAME CHANGED FROM LONE STAR EXECUTIVE TO CONROE-NORTH HOUSTON RGNL (KCX0) - TEXAS DEPARTMENT OF TRANSPORTATION REQUEST.
- DP ROUTE DESCRIPTION AT WILLIAM P HOBBY (KHOU): ADDED RWY 17, 31L, 31R TEXTUAL DEPARTURE PROCEDURES - TO MATCH CURRENT PUBLISHED 8260-15A.
- DP ROUTE DESCRIPTION AT SUGAR LAND RGNL (KSGR): ADDED RWY 17, 35 TEXTUAL DEPARTURE PROCEDURES - TO MATCH CURRENT PUBLISHED 8260-15A.
- DP ROUTE DESCRIPTION AT HOUSTON-SOUTHWEST (KAXH): ADDED RWY 9, 27 TEXTUAL DEPARTURE PROCEDURES - TO MATCH CURRENT PUBLISHED 8260-15A.
- DP ROUTE DESCRIPTION AT HOUSTON EXECUTIVE (KTME): ADDED RWY 36 TEXTUAL DEPARTURE PROCEDURE - TO MATCH CURRENT PUBLISHED 8260-15A.
- DP ROUTE DESCRIPTION AT SCHOLLES INTL AT GALVESTON (KGLS): ADDED RWY 32 TEXTUAL DEPARTURE PROCEDURE - TO MATCH CURRENT PUBLISHED 8260-15A.
- DP ROUTE DESCRIPTION AT LA PORTE MUNI (KT41): ADDED RWY 5, 12, 30 TEXTUAL DEPARTURE PROCEDURES - TO MATCH CURRENT PUBLISHED 8260-15A.
- DP ROUTE DESCRIPTION AT ALL AIRPORTS EXCEPT (IAH) & (HOU): CHANGED FROM "MAINTAIN 4000" TO "MAINTAIN ATC ASSIGNED ALTITUDE" - TOP ALTITUDE CHANGED TO ASSIGNED BY ATC
- CHANGED PROCEDURAL DATA NOTE FROM "JUNCTION TRANSITION: FOR AIRCRAFT OVERFLYING JCT VORTAC VIA J2, J15 OR J86" TO "JUNCTION TRANSITION: FOR AIRCRAFT OVERFLYING JCT VORTAC ON J2, J15 OR J86" - PER CURRENT DOCUMENTATION CRITERIA, CHANGED "VIA" TO "ON".
- TAKEOFF MINIMUMS AT GEORGE BUSH INTERCONTINENTAL/HOUSTON (KIAH): REVERSED ORDER, 8L FOLLOWED BY 8R - PER 8260.46F DOCUMENTATION CRITERIA.
- TAKEOFF MINIMUMS AT ELLINGTON (KEFD): CHANGED FROM "RWY 4, 17R, 17L, 35R, 35L" TO "RWY 4, 17L, 17R, 35L, 35R" - PER 8260.46F DOCUMENTATION CRITERIA.
- TAKEOFF OBSTACLE NOTES AT ELLINGTON (KEFD): REVERSED ORDER OF NOTES FROM RWY 35R, 35L TO 35L, 35R - PER 8260.46F DOCUMENTATION CRITERIA.
- 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.
- TAKEOFF OBSTACLE NOTES AT TEXAS GULF COAST RGNL (KLBX): UPDATED RWY 35 OBSTACLES - NEW SURVEY DATA.
- TAKEOFF OBSTACLE NOTES AT LA PORTE MUNI (KT41): ADDED RWY 5 OBSTACLES - TO MATCH OBSTACLES LISTED ON CURRENT PUBLISHED 8260-15A.
- TAKEOFF OBSTACLE NOTES AT LA PORTE MUNI (KT41): UPDATED RWY 12, 23, 30 NOTES - TO MATCH OBSTACLES LISTED ON CURRENT PUBLISHED 8260-15A.
- CONTROLLING OBSTACLE AT HOUSTON-SOUTHWEST (KAXH): CHANGED FROM TOWER TO TOWERS - TO MATCH DOCUMENTATION ON 8260-15A.
- CONTROLLING OBSTACLES: ADDED OBSTACLES MANDATING ROUTE DEVELOPMENT TO SCHOLLES INTL AT GALVESTON (KGLS) AND LA PORTE MUNI (KT41) - TO MATCH DOCUMENTATION ON 8260-15A.
- ADDITIONAL FLIGHT DATA: TOP ALTITUDES AT ALL AIRPORTS EXCEPT (IAH) & (HOU) CHANGED FROM 4000 TO "ASSIGNED BY ATC" - PER AIR TRAFFIC REQUEST.
- COMMUNICATIONS: ADDED CXO TO AWOS/ASOS - CXO HAS ASOS.



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05/04/17: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 02/16/17.

1. CHANGED TAKEOFF OBSTACLE NOTES: LA PORTE MUNI (KT41) NOTE: RWY 23: FROM BUILDININGS TO BUILDINGS.

