INSTRUMENT APPROACH PROCEDURE CHARTS

IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non-precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ANGLETON/LAKE JACKSON, TX

TEXAS GULF
COAST RGNL (LBX).....**ILS or LOC Rwy 17**
RNAV (GPS) Rwy 17
RNAV (GPS) Rwy 35
NA when local weather not available.

BAY CITY, TX

BAY CITY MUNI (BYY) ..... **RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 31
NA when local weather not available.

BEAUMONT/PORT ARTHUR, TX

JACK BROOKS
RGNL (BPT).....**ILS or LOC Rwy 12[123]**
LOC BC Rwy 30[234]
RNAV (GPS) Rwy 12[35]
RNAV (GPS) Rwy 16[35]
RNAV (GPS) Rwy 30[35]
RNAV (GPS) Rwy 34[35]
VOR-A[3]
VOR-B[3]
VOR-C[3]
VOR/DME-D[3]
VOR/DME Rwy 34[35]
VOR Rwy 12[35]
[1]ILS, LOC, Categories A, B, 900-2; Category C, 900-2¼; Category D, 900-2½; Category E, 900-2¾.
[2]NA when control tower closed.
[3]NA when local weather not available.
[4]Category D, 800-2¼; Category E, 900-2¾.
[5]Category E, 900-2¾.

BRENHAM, TX

BRENHAM
MUNI (11R) ..... **RNAV (GPS) Rwy 16**
RNAV (GPS) Rwy 34
VOR/DME Rwy 16
NA when local weather not available.
Category D, 800-2¼.

NAME ALTERNATE MINIMUMS

CALDWELL, TX

CALDWELL
MUNI (RWV) .....**RNAV (GPS) Rwy 15**
RNAV (GPS) Rwy 33
VOR/DME-A
NA when local weather not available.

CLEVELAND, TX

CLEVELAND
MUNI (6R3).....**RNAV (GPS) Rwy 16**
NA when local weather not available.

COLLEGE STATION, TX

EASTERWOOD
FIELD (CLL)..... **ILS or LOC Rwy 34[12]**
LOC BC Rwy 16[23]
RNAV (GPS) Rwy 10[34]
RNAV (GPS) Rwy 16[34]
RNAV (GPS) Rwy 28[34]
RNAV (GPS) Rwy 34[34]
VOR/DME Rwy 28[5]
VOR or TACAN Rwy 10[3]
[1]ILS, Category D, 700-2¼; Category E, 900-3.
LOC, Category D, 800-2¼; Category E, 900-3.
[2]NA when control tower closed.
[3]Category D, 800-2¼; Category E, 900-3.
[4]NA when local weather not available.
[5]Category D, 800-2¼.

CROCKETT, TX

HOUSTON
COUNTY (DKR).....**RNAV (GPS) Rwy 2**
RNAV (GPS) Rwy 20
NA when local weather not available.

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NAME ALTERNATE MINIMUMS

GALVESTON, TX

SCHOLES INTL
AT GALVESTON (GLS) ..... **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 18
RNAV (GPS) Rwy 32
RNAV (GPS) Rwy 36
Category E 800-2¼.

GIDDINGS, TX

GIDDINGS-
LEE COUNTY (GYB)..... **RNAV (GPS) Rwy 17**
RNAV (GPS) Rwy 35
NA when local weather not available.

HEARNE, TX

HEARNE MUNI (LHB) ..... **RNAV (GPS) Rwy 18**
RNAV (GPS) Rwy 36
NA when local weather not available.

HOUSTON, TX

DAVID WAYNE HOOKS
MEMORIAL (DWH) .....**RNAV (GPS) Rwy 17R**
RNAV (GPS) Rwy 35L
NA when local weather not available.

ELLINGTON (EFD).....**ILS or LOC Rwy 17R**[1]
ILS or LOC Rwy 35L[2]
RNAV (GPS) Rwy 4[3]
RNAV (GPS) Rwy 17R[3]
RNAV (GPS) Rwy 22[3]
RNAV (GPS) Rwy 35L[3]
[1]Categories A, B, 1100-2, Categories C, D, E, 1100-3
[2]ILS, Category E, 700-2¼. LOC, Category E, 800-2¼.
[3]Category E, 800-2¼.

GEORGE BUSH INTERCONTINENTAL/
HOUSTON (IAH) .....**ILS or LOC Rwy 8R**[1]
ILS or LOC Rwy 26L[2]
[1]ILS, LOC, Categories A, B, 900-2; Categories C, D, E, 900-2½.
[2]ILS, Categories A, B, 800-2; Categories C, D, E, 800-2½; LOC, Categories C, D, E, 800-2½.

LONE STAR
EXECUTIVE (CXO) ..... **NDB Rwy 14**
RNAV (GPS) Rwy 1
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 19
RNAV (GPS) Rwy 32
NA when local weather not available.

NAME ALTERNATE MINIMUMS

HOUSTON, TX (CON'T)

PEARLAND RGNL (LVJ) ....**RNAV (GPS) Rwy 32**
VOR-B
NA when local weather not available.

SUGAR LAND
RGNL (SGR)..... **ILS or LOC Rwy 35**[12]
RNAV (GPS) Rwy 17
RNAV (GPS) Rwy 35
VOR/DME-A
NA when local weather not available.
[1]NA when control tower closed.
[2]ILS, Categories A, B, C, D, 700-2.

WILLIAM P.
HOBBY (HOU) .....**ILS or LOC Rwy 4**
ILS or LOC Rwy 12R
LOC Rwy 22
RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 12R
RNAV (GPS) Rwy 22
VOR/DME Rwy 30L
Category E, 900-3.

HUNTSVILLE, TX

HUNTSVILLE
MUNI (UTS) .....**RNAV (GPS) Rwy 18**
VOR/DME-A
NA when local weather not available.

JACKSONVILLE, TX

CHEROKEE
COUNTY (JSO) .....**RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
VOR /DME Rwy 14
NA when local weather not available.

JASPER, TX

JASPER COUNTY-
BELL FIELD (JAS) .....**RNAV (GPS) Rwy 18**
RNAV (GPS) Rwy 36
NA when local weather not available.

LA GRANGE, TX

FAYETTE RGNL
AIR CENTER (3T5).....**RNAV (GPS) Rwy 16**
RNAV (GPS) Rwy 34
NA when local weather not available.

LUFKIN, TX

ANGELINA COUNTY (LFK).....**VOR Rwy 33**
NA when local weather not available.

NACOGDOCHES, TX

A L MANGHAM
JR. RGNL (OCH) .....**RNAV (GPS) Rwy 36**
NA when local weather not available.

NAME ALTERNATE MINIMUMS NAME ALTERNATE MINIMUMS

ORANGE, TX
ORANGE
COUNTY (ORG)..... **RNAV (GPS) Rwy 22**
VOR/DME Rwy 22
NA when local weather not available.

PALACIOS, TX
PALACIOS
MUNI (PSX)..... **RNAV (GPS) Rwy 13**
NA when local weather not available.

PALESTINE, TX
PALESTINE
MUNI (PSN) ..... **RNAV (GPS) Rwy 18**
RNAV (GPS) Rwy 36
NA when local weather not available.

PORT LAVACA, TX
CALHOUN
COUNTY (PKV)..... **RNAV (GPS) Rwy 14**
NA when local weather not available.

VICTORIA, TX
VICTORIA
RGNL (VCT)..... **RNAV (GPS) Rwy 13L**
RNAV (GPS) Rwy 31R
VOR Rwy 13L
VOR/DME Rwy 31R
NA when local weather not available.

WHARTON, TX
WHARTON
RGNL (ARM)..... **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
VOR/DME-A
NA when local weather not available.

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IFR TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude , and/or airports that have civil IFR takeoff minimums other than standard, are listed below. Takeoff Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or the applicable military volume, as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not specifically assigned a departure procedure (i.e.,ODP, SID, or radar vector) as part of an IFR clearance, an ODP may be required to be flown for obstacle clearance, even though not specifically stated in the IFR clearance. When doing so in this manner, ATC should be informed when the ODP being used contains a specified route to be flown, restrictions before turning, and/or altitude restrictions.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard takeoff rules and establishes takeoff minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) takeoff minima are published below. For military takeoff minima, refer to appropriate service directives.

NAME TAKEOFF MINIMUMS

ANAHUAC, TX

CHAMBERS COUNTY (T00)
ORIG 11069 (FAA)
TAKEOFF MINIMUMS: **Rwys 17,35,** NA-Environmental.
NOTE: **Rwy 12,** vehicles on roadway beginning 19' from DER, left and right of centerline, up to 15' AGL/34' MSL. Trees beginning 986' from DER, 732' left of centerline, up to 100' AGL/119' MSL. **Rwy 30,** trees beginning 60' from DER, left and right of centerline, up to 100' AGL/124' MSL. Vehicles on roadway 121' from DER, 512' right of centerline, up to 17' AGL/36' MSL. Tower 2152' from DER, 593' right of centerline 60' AGL/83' MSL.

ANGLETON/LAKE JACKSON, TX

TEXAS GULF COAST RGNL (LBX)
AMDT 1 08157 (FAA)
NOTE: **Rwy 35,** tree 1510' from DER, 721' left of centerline, 48' AGL/68' MSL.

BAY CITY, TX

BAY CITY MUNI (BYY)
ORIG 11349 (FAA)
NOTE: **Rwy 13,** trees beginning 51' from DER, left and right of centerline, up to 55' AGL/92' MSL. Poles beginning 635' from DER, 402' left of centerline, 31' AGL/68' MSL. **Rwy 31,** trees beginning 102' from DER, left and right of centerline, up to 34' AGL/80' MSL.

NAME TAKEOFF MINIMUMS

BAYTOWN, TX

BAYTOWN (HPY)
ORIG 10210 (FAA)
TAKEOFF MINIMUMS: **Rwy 14,** 300-1 or std. w/ min. climb of 420' per NM to 300.
NOTE: **Rwy 14,** multiple trees, power poles, and houses beginning at DER, left and right of centerline, up to 60' AGL/89' MSL. Vehicle 187' from DER, 47' right of centerline, 15' AGL/44' MSL. Tower 4066' from DER, 1217' right of centerline, 156' AGL/180' MSL. **Rwy 32,** vehicle 53' from DER, 23' right of centerline, 15' AGL/49' MSL. Buildings beginning 104' from DER, left and right of centerline, up to 30' AGL/59' MSL. Trees beginning 116' from DER, left and right of centerline, up to 60' AGL/94' MSL.

R W J AIRPARK (54T)
ORIG 05020 (FAA)
NOTE: **Rwy 8,** trees abeam DER, 147' left of centerline, 45' AGL/72' MSL. Poles 236' from DER, 90' right of centerline, 30' AGL/57' MSL. **Rwy 14,** trees 314' from DER, 44' right of centerline, 35' AGL/87' MSL. Road 125' from DER, 15' AGL/42' MSL. **Rwy 26,** power lines 460' from DER, 32' AGL/62' MSL. Road 550' from DER, 15' AGL/50' MSL. **Rwy 32,** road 220' from DER, 15' AGL/48' MSL.

BEAUMONT, TX
BEAUMONT MUNI (BMT)
ORIG 09015 (FAA)
TAKEOFF MINIMUMS: **Rwys 16,34,** NA - Obstacles.
NOTE: **Rwy 13,** multiple trees, poles and buildings beginning 82' from DER, 2' left of centerline, up to 74' AGL/106' MSL. Multiple trees, poles and signs beginning 441' from DER, 22' right of centerline, up to 73' AGL/105' MSL. Vehicle on road 152' from DER, 428' left of centerline, 15' AGL/46' MSL. Train on railroad 545' from DER, 506' right of centerline, 23' AGL/57' MSL. **Rwy 31,** multiple trees, poles and transmission line towers beginning 81' from DER, 2' left of centerline, up to 64' AGL/94' MSL. Multiple trees, poles, and transmission line towers beginning 241' from DER, 4' right of centerline, up to 56' AGL/88' MSL. Train on railroad 375' from DER, 354' right of centerline, 23' AGL/55' MSL.

BEAUMONT/PORT ARTHUR, TX
JACK BROOKS RGNL (BPT)
ORIG 09351 (FAA)
NOTE: **Rwy 12,** multiple trees beginning 1024' from DER, 202' left of centerline, up to 43' AGL/48' MSL. Trees 1676' from DER, 778' right of centerline, 51' AGL/56' MSL. **Rwy 16,** multiple trees beginning 580' from DER, 519' right of centerline, up to 51' AGL/56' MSL. **Rwy 30,** trees 1005' from DER, 629' right of centerline, 54' AGL/64' MSL. Multiple trees beginning 1041' from DER, 617' left of centerline, up to 67' AGL/77' MSL. **Rwy 34,** building 770' from DER, 386' right of centerline, 28' AGL/38' MSL. Multiple trees beginning 1274' from DER, 398' right of centerline, up to 70' AGL/80' MSL. Multiple trees beginning 1288' from DER, 218' left of centerline, up to 72' AGL/82' MSL. Tower 1487' from DER, 398' right of centerline, 60' AGL/75' MSL.

BRENHAM, TX
BRENHAM MUNI (11R)
AMDT 1 10042 (FAA)
NOTE: **Rwy 16,** trees and poles beginning 45' from DER, 272' right of centerline to 305' left of centerline, up to 89' AGL/299' MSL. **Rwy 34,** trees beginning 18' from DER, 325' right of centerline to 380' left of centerline, up to 61' AGL/351' MSL.

BRYAN, TX
COULTER FIELD (CFD)
ORIG 07186 (FAA)
NOTE: **Rwy 15,** vehicle on road 266' from DER, on centerline, 17' AGL/386' MSL. Multiple trees and poles beginning 169' from DER, 339' right of centerline, up to 20' AGL/389' MSL. Multiple trees and poles beginning 203' from DER, 245' left of centerline, up to 35' AGL/400' MSL.**Rwy 33,** multiple poles and T-L towers beginning 36' from DER, 207' left of centerline, up to 35' AGL/382' MSL. Trees 508' from DER, 290' right of centerline, 25' AGL/371' MSL.

CALDWELL, TX
CALDWELL MUNI (RWV)
AMDT 1 12264 (FAA)
TAKEOFF MINIMUMS: **Rwy 33**, 300-1 or std. w/min. climb of 778' per NM to 800.
NOTE: **Rwy 15,** trees beginning 323' from DER, left and right of centerline, up to 40' AGL/399' MSL. Train on tracks 372' from DER, left and right of centerline, up to 23' AGL/382' MSL. Power lines beginning 1896' from DER, left and right of centerline, up to 100' AGL/499' MSL. **Rwy 33,** trees beginning 5' from DER, left and right of centerline, up to 40' AGL/449' MSL. Power lines beginning 925' from DER, left and right of centerline, up to 50' AGL/499' MSL. Water tank 3624' from DER, 1031' left of centerline 215' AGL/648' MSL.

CENTER, TX
CENTER MUNI (F17)
ORIG 10210 (FAA)
DEPARTURE PROCEDURE: **Rwy 17,** climb heading 167° to 1000 before turning right.
NOTE: **Rwy 17,** numerous trees beginning 326' from DER, 432' right and left of centerline, up to 100' AGL/414' MSL. Vehicle on road 234' from DER, 530' left of centerline, up to 15' AGL/314' MSL. **Rwy 35,** numerous trees beginning 1724' from DER, 388' left and right of centerline, up to 100' AGL/459' MSL. Vehicle on road 1091' from DER, 742' right of centerline, up to 15' AGL/354' MSL.

CLEVELAND, TX
CLEVELAND MUNI (6R3)
AMDT 1 11265 (FAA)
DEPARTURE PROCEDURE: **Rwy 16,** climb heading 157° to 1400 before turning right. **Rwy 34,** climb heading 312° to 2000 before proceeding on course.
NOTE: **Rwy 16,** trees beginning abeam DER, right and left of centerline, up to 100' AGL/239' MSL. **Rwy 34,** trees beginning 120' from DER, 243' left of centerline, up to 100' AGL/259' MSL. Trees and poles beginning 225' from DER, 363' right of centerline, up to 100' AGL/220' MSL. Vehicles on road 738' from DER, right and left of centerline, up to 19' AGL/169' MSL.

COLLEGE STATION, TX
EASTERWOOD FIELD (CLL)
AMDT 3 11097 (FAA)
TAKEOFF MINIMUMS: **Rwy 4,** 300-1¾ or std. w/ min. climb of 243' per NM to 700.
DEPARTURE PROCEDURE: **Rwy 34,** climb heading 343° to 1000 before turning right.
NOTE: **Rwy 4,** trees beginning 247' from DER, 103' right of centerline, up to 75' AGL/384' MSL. Trees beginning 765' from DER, 120' left of centerline, up to 41' AGL/341' MSL. **Rwy 10,** multiple trees beginning 24' from DER, 251' right of centerline, up to 40' AGL/350' MSL. Multiple trees and OL on elevator beginning 498' from DER, 100' left of centerline, up to 66' AGL/366' MSL. **Rwy 16,** tree 969' from DER, 705' left of centerline, up to 75' AGL/374' MSL. **Rwy 22,** trees beginning 108' from DER, 83' right of centerline, up to 75' AGL/394' MSL. Trees beginning 124' from DER, 10' left of centerline, up to 75' AGL/384' MSL. **Rwy 28,** multiple trees beginning 474' from DER, 86' right of centerline, up to 75' AGL/404' MSL. Multiple trees and light poles beginning 187' from DER, 283' left of centerline, up to 75' AGL/404' MSL. **Rwy 34,** trees beginning 775' from DER, 474' right of centerline, up to 75' AGL/394' MSL. Vehicles on roads beginning 748' from DER, 97' right of centerline, up to 17' AGL/346' MSL. Trees and terrain beginning 136' from DER, 235' left of centerline, up to 50' AGL/380' MSL. Vehicles on road 1112' from DER, 175' left of centerline, up to 15' AGL/354' MSL.

CROCKETT, TX

HOUSTON COUNTY (DKR)
ORIG 11349 (FAA)

TAKEOFF MINIMUMS: **Rwy 2,** 400-2 or std. w/min. climb of 280' per NM to 800. **Rwy 20,** 300-1½ or std. w/min. climb of 459'per NM to 700.

NOTE: **Rwy 2,** multiple trees beginning 57' from DER, 61' right of centerline, up to 50' AGL/399' MSL. Multiple trees and terrain beginning 27' from DER, 109' left of centerline, up to 50' AGL/409' MSL. Tower 1.5 NM from DER, 2864' left of centerline 233' AGL/623' MSL. **Rwy 20,** multiple towers beginning 4567' from DER, 1025' right of centerline, up to 200' AGL/529' MSL.

EAGLE LAKE, TX

EAGLE LAKE (ELA)
AMDT 1 04330 (FAA)

TAKEOFF MINIMUMS: **Rwy 17**, 200-1, or std. with a min. climb of 420' per NM to 500.

NOTE: **Rwy 17,** tower 3068' from DER, 793' left of centerline, 192' AGL/317' MSL.

GALVESTON, TX

SCHOLES INTL AT GALVESTON (GLS)
AMDT 4 08157 (FAA)

TAKEOFF MINIMUMS: **Rwy 18,** 300-1 or std. w/ min. climb of 502' per NM to 300.

NOTE: **Rwy 14,** bush 381' from DER, 533' left of centerline, 15' AGL/20' MSL. Fence 201' from DER, 490' left of centerline, 6' AGL/11' MSL. Tree 343' from DER, 468' right of centerline, 12' AGL/17' MSL. **Rwy 18,** building 3057' from DER, 339' left of centerline, 123' AGL/130' MSL. Multiple poles beginning 2034' from DER, 87' right of centerline, up to 60' AGL/70' MSL. Multiple transmission towers beginning 636' from DER, 551' right of centerline, up to 55' AGL/60' MSL. Tree 460' from DER, 316' right of centerline, 22' AGL/29' MSL. **Rwy 32,** multiple cranes beginning 4341' from DER, 1017' left of centerline, up to 131' AGL/ 131' MSL. **Rwy 36,** tree 730' from DER, 501' right of centerline, 27' AGL/32' MSL.

GIDDINGS, TX

GIDDINGS-LEE COUNTY (GYB)
ORIG 10210 (FAA)

NOTE: **Rwy 17,** numerous trees beginning 720' from DER, 58' right of centerline, up to 50' AGL/479' MSL. Numerous trees beginning 754' from DER, 340' left of centerline, up to 50' AGL/479' MSL. **Rwy 35,** numerous trees beginning 613' from DER, 272' right of centerline, up to 50' AGL/539' MSL. Numerous trees beginning 558' from DER, 265' left of centerline, up to 50' AGL/559' MSL. Vehicle on road 516' from DER, 246' left of centerline, 15' AGL/514' MSL.

HOUSTON, TX

DAVID WAYNE HOOKS MEMORIAL (DWH)
AMDT 3 08157 (FAA)

TAKEOFF MINIMUMS: **Rwys 17L, 35R,** NA-Environmental. **Waterways 17, 35,** NA - air traffic.

NOTE: **Rwy 17R,** multiple trees beginning 708' from DER, 68' left of centerline, up to 71' AGL/220' MSL. Multiple hangars beginning 433' from DER, 515' left of centerline, up to 37' AGL/182' MSL. DME antenna 653' from DER, 256' left of centerline, 13' AGL/162' MSL. Multiple trees and pole beginning 85' from DER, 294' right of centerline, up to 45' AGL/189' MSL. **Rwy 35L,** multiple trees and poles beginning 144' from DER, 32' left of centerline, up to 79' AGL/238' MSL. Multiple hangars and buildings beginning 85' from DER, 9' left of centerline, up to 53' AGL/202' MSL. Multiple trees, towers and pole beginning 100' from DER, 124' right of centerline, up to 93' AGL/247' MSL. Vehicle and road 315' from DER, on centerline 15' AGL/166' MSL. Building 894' from DER, 231' right of centerline, 23' AGL/173' MSL.

ELLINGTON (EFD)
AMDT 3 13010 (FAA)

TAKEOFF MINIMUMS: **Rwy 22,** 200-1¼ or std w/min. climb of 214' per NM to 300, or alternatively with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1400' prior to DER.

NOTE: **Rwy 4,** tree 1526' from DER, 737' right of centerline, 39' AGL/69' MSL. **Rwy 17R,** pole 1488' from DER, 817' right of centerline, 40' AGL/74' MSL. **Rwy 22,** obstruction light on GS and equipment 321' from DER, 544' left of centerline, 39' AGL/68' MSL. Sign 213' from DER, 472' right of centerline, 6' AGL/32' MSL. Antenna on building 1998' from DER, 598' right of centerline, 54' AGL/83' MSL. Obstruction light on communication equipment and antenna 1626' from DER, 837' right of centerline, 88' AGL/114' MSL. Obstruction light on water tower and tank 6114' from DER, 1635' right of centerline,159' AGL/192' MSL. **Rwy 35L,** trees beginning 1119' from DER, 679' right of centerline, up to 37' AGL/77' MSL. Crane 2353' from DER, 1024' left of centerline, 58' AGL/97' MSL. **Rwy 35R,** tree 1597' from DER, 32' left of centerline, 50' AGL/80' MSL. Tank 2639' from DER, 1157' right of centerline, 77' AGL/109' MSL.

GEORGE BUSH INTERCONTINENTAL/
HOUSTON (IAH)
AMDT 2 08157 (FAA)

NOTE: **Rwy 8L,** tree 2866' from DER, 921' left of centerline, 107' AGL/201' MSL. Multiple trees beginning 2750' from DER, 106' right of centerline, up to 80' AGL/174' MSL. **Rwy 15L,** multiple trees 2638' from DER, 758' right of centerline, up to 76' AGL/160' MSL. **Rwy 15R,** tower 1431' from DER, 591' left of centerline, 48' AGL/133' MSL. Antenna on glideslope 1469' from DER, 621' left of centerline, 49' AGL/133' MSL. **Rwy 26R,** pole 950' from DER, 660' right of centerline, 40' AGL/129' MSL. **Rwy 33R,** tree 2868' from DER, 1027' right of centerline, 73' AGL/172' MSL.

HOUSTON EXECUTIVE (TME)
ORIG 07242 (FAA)

DEPARTURE PROCEDURE: **Rwy 36,** Climb heading 355°to 700 before turning east.

NOTE: **Rwy 36,** power poles from left to right beginning 703' from DER, 623' left to 685' right of centerline, up to 32' AGL/196' MSL.

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HOUSTON, TX (CON'T)

HOUSTON-SOUTHWEST (AXH)
AMDT 5 08157 (FAA)

DEPARTURE PROCEDURE: **Rwy 9,** climb heading 089°to 2000 before turning left. **Rwy 27**, climb heading 269°to 2200 before turning right.

NOTE: **Rwy 9,** multiple hangars beginning 239' from DER, 360' right of centerline, up to 42' AGL/106' MSL. Multiple trees beginning 501' from DER, 355' right of centerline, up to 43' AGL/111' MSL. Multiple hangars beginning 119' from DER, 498' left of centerline, up to 41' AGL/105' MSL. Pole 332' from DER, 299' left of centerline, 43' AGL/97' MSL. Antenna 1172' from DER, 658' left of centerline, 51' AGL/115' MSL. Multiple trees beginning 558' from DER, 68' left of centerline, up to 58' AGL/122' MSL. **Rwy 27,** multiple trees beginning 1050' from DER, 40' left of centerline, up to 71' AGL/140' MSL. Vehicle and road 99' from DER, 291' right of centerline, 15' AGL/83' MSL. Multiple trees beginning 873' from DER, 514' right of centerline, up to 59' AGL/130' MSL. Multiple transmission poles beginning 1304' from DER, 131' right of centerline, up to 41' AGL/110' MSL.

LONE STAR EXECUTIVE (CXO)
AMDT 3 10266 (FAA)

NOTE: **Rwy 1,** trees beginning 194' from DER, 130' right of centerline, up to 100' AGL/374' MSL. Trees beginning 817' from DER, 15' left of centerline, up to 100' AGL/359' MSL. **Rwy 14,** trees and obstruction light on DME beginning 399' from DER, 80' right of centerline, up to 100' AGL/329' MSL. Trees beginning 640' from DER, 408' left of centerline, up to 100' AGL/329' MSL. **Rwy 19,** trees beginning 68' from DER, 64' right of centerline, up to 100' AGL/344' MSL. Trees beginning 1' from DER, 159' left of centerline, up to 100' AGL/339' MSL. **Rwy 32,** trees beginning 1785' from DER, 973' right of centerline, up to 100' AGL/339' MSL. Trees and vehicles on road beginning 603' from DER, 458' left of centerline, up to 100' AGL/354' MSL.

PEARLAND RGNL (LVJ)
AMDT 3 07298 (FAA)

DEPARTURE PROCEDURE: **Rwy 14,** climb heading 139°to 1600 before proceeding south through southwest. **Rwy 32,** climb heading 319°to 900 before proceeding on course.

NOTE: **Rwy 14,** multiple trees beginning 199' from DER, 226' right of centerline, up to 66' AGL/100' MSL. Vehicle on road 398' from DER, 405' left of centerline, 9' AGL/55' MSL. Trees 1287' from DER, 453' left of centerline, up to 56' AGL/90' MSL. **Rwy 32,** multiple trees beginning 690' from DER, 81' left of centerline, up to 79' AGL/128' MSL. Multiple poles beginning 745' from DER, 24' left of centerline, up to 40' AGL/80' MSL. Multiple trees and poles beginning 29' from DER, 11' right of centerline, up to 64' AGL/104' MSL. Building 237' from DER, 520' right of centerline, 32' AGL/72' MSL.

HOUSTON, TX (CON'T)

SUGAR LAND RGNL (SGR)
AMDT 7A 12264 (FAA)

DEPARTURE PROCEDURE: **Rwy 17,** climb heading 170°to 1500 before turning eastbound. **Rwy 35,** climb heading 350°to 1100 before turning southbound.

NOTE: **Rwy 17,** multiple poles beginning 436' from DER, 172' right of centerline, up to 44' AGL/124' MSL. Railroad 110' from DER, 10' left of centerline, 23' AGL/104' MSL. Multiple poles beginning 135' from DER, 270' left of centerline, up to 44' AGL/ 111' MSL. Building 1036' from DER, 743' right of centerline, 26' AGL/102' MSL. **Rwy 35,** vehicle and road 65' from DER , 2' right of centerline, 15' AGL/ 96' MSL. Multiple trees beginning 37' from DER , 275' right of centerline, up to 81' AGL/164' MSL. DME antenna 380' from DER , 253' right of centerline, 24' AGL/100' MSL. Multiple trees beginning 83' from DER , 65' left of centerline, up to 81' AGL/155' MSL.

WEST HOUSTON (IWS)
AMDT 4 12264 (FAA)

NOTE: **Rwy 15,** road and vehicle beginning 74' from DER, 60' left of centerline, up to 15' AGL/123' MSL. Road and vehicle beginning 342' from DER, 6' right of centerline, up 15' AGL/123' MSL. Building 177' from DER, 398' left of centerline, 18' AGL/126' MSL. Light pole 942' from DER, 453' right of centerline, 39' AGL/145' MSL. Trees beginning 307' from DER, 26 left of centerline, up to 58' AGL/165' MSL. Trees beginning 130' from DER, 117' right of centerline, up to 100' AGL/208' MSL. **Rwy 33,** trees beginning 168' from DER, 9' left of centerline, up to 70' AGL/179' MSL. Trees beginning 66' from DER, 3' right of centerline, up to 75' AGL/184' MSL.

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HOUSTON, TX (CON'T)

WILLIAM P. HOBBY (HOU)
AMDT 5 08157 (FAA)

TAKEOFF MINIMUMS: **Rwy 4,** 300-1 or std. w/ min. climb of 270' per NM to 300. **Rwy 17,** 300-1.**Rwy 22,** std. w/ min. climb of 290' per NM to 1500.

DEPARTURE PROCEDURE: **Rwy 17,** climb heading 174°to 700 before turning westbound. **Rwy 30L,** climb heading 309°to 800 before turning westbound. **Rwy 30R,** climb heading 309°to 800 before turning westbound.

NOTE: **Rwy 4,** pole 4403' from DER, 1609' right of centerline, 121' AGL/166' MSL. Light on building 1562' from DER, 859' right of centerline, 59' AGL/103' MSL. Building 3990' from DER, 1223' right on centerline, 139' AGL/174' MSL. Light on flagpole 4618' from DER, 768' right of centerline, 117' AGL/161' MSL NE, **Rwy 12L,** antenna on hanger 1548' from DER, 424' left of centerline, 45' AGL/85' MSL. **Rwy 12R,** vehicle and road 514' from DER, 543' right of centerline, 17' AGL/55' MSL. Tree 1217' from DER, 756' right of centerline, 43' AGL/89' MSL. Fence 85' from DER, 492' left of centerline, 4' AGL/45' MSL. Vehicle and road 176' from DER, 497' left of centerline, 17' AGL/55' MSL. Pole 1011' from DER, 696' left of centerline, 33' AGL/73' MSL. Tree 1256' from DER, 783' left of centerline, 38' AGL/ 78' MSL. **Rwy 17,** multiple poles beginning 606' from DER, 393' right of centerline, up to 79' AGL/124' MSL. Crane 1795' from DER, 689' right of centerline, 100' AGL/150' MSL. Antenna on building 620' from DER, 312' left of centerline, 27' AGL/72' MSL. Multiple trees beginning 721' from DER, 260' left of centerline, up to 71' AGL/116' MSL. Radar reflector 1214' from DER, 258' left of centerline, 32' AGL/77' MSL. **Rwy 22,** pole 727' from DER, 626' right of centerline, 28' AGL/77' MSL. Tree 1310' from DER, 679' right of centerline, 27' AGL/76' MSL. Antenna on light pole 1805' from DER, 968' right of centerline, 60' AGL/109' MSL. **Rwy 30L,** antenna on building 547' from DER, 274' right of centerline, 23' AGL/69' MSL. Multiple poles beginning 341' from DER, 501' left of centerline, up to 39' AGL/84' MSL. Multiple trees beginning 1392' from DER, 466' left of centerline, up to 78' AGL/118' MSL. **Rwy 30R,** pole 1096' from DER, 785' right of centerline, 29' AGL/75' MSL. Antenna on building 500' from DER, 525' left of centerline, 33' AGL/69' MSL. **Rwy 35,** antenna on light pole 738' from DER, 519' right of centerline, 40' AGL/86' MSL. Light pole 1119' from DER, 353' right of centerline, 31' AGL/77' MSL. Antenna on building 66' from DER, 471' left of centerline, 33' AGL/69' MSL.

HUNTSVILLE, TX

HUNTSVILLE MUNI (UTS)

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 700 before turning.

JACKSONVILLE, TX

CHEROKEE COUNTY (JSO)
ORIG 06047 (FAA)

DEPARTURE PROCEDURE: **Rwy 14,** climb via heading 135°to 1200 before proceeding on course.

JASPER, TX

JASPER COUNTY-BELL FIELD (JAS)
ORIG 09239 (FAA)

NOTE: **Rwy 18,** trees beginning 2081' from DER, 118' left of centerline, up to 100' AGL/327' MSL. Trees beginning 690' from DER, 87' right of centerline, up to 100' AGL/329' MSL. **Rwy 36,** hangar 320' from DER, 504' left of centerline, 27' AGL/236' MSL. Trees beginning 534' from DER, 139' left of centerline, up to 100' AGL/329' MSL. Pole 1968' from DER, 409' left of centerline, 33' AGL/262' MSL. Bush 94' from DER, 476' right of centerline, 8' AGL/217' MSL. Trees beginning 514' from DER, 6' right of centerline, up to 100' AGL/354' MSL. Hangar 1176' from DER, 675' right of centerline, 30' AGL/249' MSL. Tower 1246' from DER, 611' right of centerline, 40' AGL/258' MSL.

KOUNTZE/SILSBEE, TX

HAWTHORNE FIELD (45R)
ORIG 08045 (FAA)

NOTE: **Rwy 13,** Terrain 3' from DER, 81' right of centerline, 0' AGL/69' MSL. Trees beginning 64' from DER, 277' right of centerline, up to 50' AGL/119' MSL. Tree 111' from DER, 516' left of centerline, 50' AGL/124' MSL. Terrain 172' from DER, 119' left of centerline, 0' AGL/74' MSL. **Rwy 31,** Terrain 109' from DER, 134' left of centerline, 0' AGL/74' MSL. Tree 536' from DER, 457' right of centerline, 50' AGL/114' MSL.

LA GRANGE, TX

FAYETTE RGNL AIR CENTER (3T5)
ORIG 08157 (FAA)

NOTE: **Rwy 16,** tree 140' from DER, 276' right of centerline, 100' AGL/432' MSL. Tree 612' from DER, 551' left of centerline, 100' AGL/422' MSL. Road with vehicle 942' from DER, 667' left of centerline, 15' AGL/350' MSL.

LA PORTE, TX

LA PORTE MUNI (T41)
AMDT 5 10210 (FAA)

DEPARTURE PROCEDURE: **Rwy 12,** climb heading 121°to 500 before turning right. **Rwy 30,** climb heading 301°to 700 before turning right.

NOTE: **Rwy 12,** trees and poles beginning 128' from DER, 42' left of centerline, up to 50' AGL/74' MSL. Trees and poles beginning 131' from DER, 114' right of centerline, up to 39' AGL/63' MSL. Chimney 676' from DER, 412' right of centerline, 31' AGL/55' MSL. **Rwy 23,** trees beginning 1320' from DER, 43' left of centerline, up to 63' AGL/87' MSL. Hangars beginning 233' from DER, 288' right of centerline, up to 35' AGL/59' MSL. Vehicle on road, 594' from DER, 513' left of centerline, 15' AGL/39' MSL. Trees 1010' from DER, 1010' right of centerline, up to 63' AGL/87' MSL. **Rwy 30,** trees and poles beginning 114' from DER, 67' left of centerline, up to 63' AGL/87' MSL. Buildings 335' from DER, 356' left of centerline, 25' AGL/50' MSL. Trees and poles beginning 44' from DER, 35' right of centerline, up to 52' AGL/76' MSL.

LIBERTY, TX

LIBERTY MUNI (T78)
ORIG-A 11069 (FAA)

TAKEOFF MINIMUMS: **Rwys 16, 34,** 2000-3 or std. with a min. climb of 270' per NM to 2100.

DEPARTURE PROCEDURE: **Rwy 16,** climb heading 161°to 2700 before turning left. **Rwy 34**, climb heading 341°to 2700 before turning right.

LIVINGSTON, TX
LIVINGSTON MUNI (00R)
AMDT 1 11125 (FAA)
DEPARTURE PROCEDURE: **Rwy 12,** climb heading 125° to 1700 before proceeding on course. **Rwy 30,** climb heading 305° to 800 before turning south.
NOTE: **Rwy 12,** trees beginning at DER, right and left of centerline, up to 100' AGL/249' MSL. **Rwy 30,** vehicle on road 10' from DER, 492' right of centerline, 10' AGL/159' MSL. Trees beginning 260' from DER, 304' right of centerline, up to 100' AGL/249' MSL.

LUFKIN, TX
ANGELINA COUNTY (LFK)
ORIG 07074 (FAA)
NOTE: **Rwy 7,** multiple trees and terrain beginning 75' from DER, 39' left of centerline, up to 85' AGL/381' MSL. Multiple trees beginning 148' from DER, 334' right of centerline, up to 75' AGL/371' MSL. **Rwy 15,** multiple trees beginning 261' from DER, 142' right of centerline, up to 53' AGL/327' MSL. Multiple trees and terrain beginning 21' from DER, 146' left of centerline, up to 53' AGL/327' MSL. **Rwy 25,** multiple trees beginning 1767' from DER, 283' right of centerline, up to 78' AGL/362' MSL. Multiple trees beginning 1366' from DER, 145' left of centerline, up to 69' AGL/353' MSL. **Rwy 33,** multiple trees and pole beginning 289' from DER, 247' right of centerline, up to 71' AGL/360' MSL. Multiple trees and road beginning 574' from DER, 4' left of centerline, up to 74' AGL/363' MSL.

MADISONVILLE, TX
MADISONVILLE MUNI (51R)
ORIG 12152 (FAA)
NOTE: **Rwy 18,** multiple trees and power poles beginning at DER, 179' right of centerline, up to 50' AGL/310' MSL. Multiple trees and power poles beginning at DER, 200' left of centerline, up to 50' AGL/309' MSL. **Rwy 36,** multiple trees and power poles beginning 99' from DER, 50' left of centerline, up to 50' AGL/341' MSL. Multiple trees beginning 50' from DER, 75' right of centerline, up to 50' AGL/ 346' MSL.

MARLIN, TX
MARLIN (T15)
ORIG 13010 (FAA)
NOTE: **Rwy 17,** power lines beginning 411' from DER, left and right of centerline, up to 125' AGL/524' MSL. Building 7' from DER, 155' left of centerline, 30' AGL/439' MSL. Trees beginning 656' from DER, left and right of centerline, up to 50' AGL/449' MSL. Building 309' from DER, 100' left of centerline, 30' AGL/439' MSL. Vehicles in parking lot 364' from DER, on centerline, up to 15' AGL/415' MSL. **Rwy 35,** trees 225' from DER, 232' right of centerline, up to 50' AGL/469' MSL. Trees 181' from DER, 240' left of centerline, up to 50' AGL/459' MSL. Trees beginning 708' from DER, left and right of centerline, up to 50' AGL/469' MSL. Vehicles 68' from DER, 347' right of centerline, up to 15' AGL/424' MSL.

MEXIA, TX
MEXIA-LIMESTONE CO (LXY)
ORIG 11125 (FAA)
TAKEOFF MINIMUMS: **Rwy 36,** 300-2¼ or std. w/min. climb of 212' per NM to 1000, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1600' prior to DER.
NOTE: **Rwy 18,** vehicles on road beginning 202' from DER, 400' left of centerline, up to 15' AGL/554' MSL. Tree 419' from DER, 292' right of centerline, up to 80' AGL/619' MSL. **Rwy 36,** trees beginning 179' from DER, 382' right of centerline, up to 80' AGL/619' MSL. Trees beginning 391' from DER, 315' left of centerline, up to 80' AGL/629' MSL.

NACOGDOCHES, TX
A. L. MANGHAM JR. RGNL (OCH)
AMDT 2 12152 (FAA)
DEPARTURE PROCEDURE: **Rwy 36**, climb heading 359° to 1000 before turning right.
NOTE: **Rwy 18,** trees 47' from DER, 503' left of centerline, 67' AGL/397' MSL. Trees 1227' from DER, 580' left of centerline, 52' AGL/382' MSL. Trees 2234' from DER, 939' right of centerline, 71' AGL/431' MSL. **Rwy 36,** trees 252' from DER, 485' left of centerline, 81' AGL/401' MSL. Trees 792' from DER, 513' left of centerline, 87' AGL/447' MSL. Trees beginning 1957' from DER, 23' left of centerline, up to 70' AGL/470' MSL. Trees 207' from DER, 492' right of centerline, 58' AGL/388' MSL. Multiple OL's and trees beginning 661' from DER, 2' right of centerline, up to 74' AGL/434' MSL. Multiple trees beginning 2290' from DER, 316' right of centerline, up to 87' AGL/487' MSL.

NAVASOTA, TX
NAVASOTA MUNI (60R)
ORIG 84033 (FAA)
DEPARTURE PROCEDURE: **Rwy 35**, climb runway heading to 2100 before turning eastbound.

ORANGE, TX
ORANGE COUNTY (ORG)
ORIG 09295 (FAA)
TAKEOFF MINIMUMS: **Rwy 4,** 400-1¼ or std. w/ min. climb of 425' per NM to 500.**Rwys 13, 31,** NA-Environmental.
NOTE: **Rwy 4,** trees beginning 893' from DER, 513' right of centerline, up to 30' AGL/87' MSL. Trees beginning 1856' from DER, 550 left of centerline, up to 30' AGL/66' MSL. Transmission poles beginning 2518' from DER, left and right of centerline, up to 73' AGL/83' MSL. Tower 6401' from DER, 1900' left of centerline, 283' AGL/298' MSL. **Rwy 22,** trees beginning at DER, left and right of centerline, up to 30' AGL/39' MSL.

PALACIOS, TX
PALACIOS MUNI (PSX)
ORIG 11293 (FAA)
DEPARTURE PROCEDURE: **Rwy 8,** climbing right turn heading 120° to 1800 before proceeding on course. **Rwy 13,** climb heading 127° to 1100 before turning left. **Rwy 35,** climb heading 352° to 1100 before turning right.
NOTE: **Rwy 31,** bush 20' from DER, 296' right of centerline, 6' AGL/16' MSL.

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PALESTINE, TX

PALESTINE MUNI (PSN)
AMDT 2 04274 (FAA)

TAKEOFF MINIMUMS: **Rwy 9**, std. with a min. climb of 313' per NM to 1200, or 600-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 9,** for climb in visual conditions: cross Palestine Municipal Airport at or above 1200.

NOTE: **Rwy 9,** multiple trees and terrain beginning 1.5 NM from DER, 2404' left of centerline, up to 100' AGL/739' MSL. Terrain 1.6 NM from DER, 1545' right of centerline, 601' MSL.

VICTORIA, TX

VICTORIA RGNL (VCT)
AMDT 1 12152 (FAA)

TAKEOFF MINIMUMS: **Rwys 6, 24,** NA - environmental.

NOTE: **Rwy 13R,** poles, railroad, and tower beginning 796' from DER, 61' right of centerline, up to 59' AGL/161' MSL. Hopper and tank beginning 1124' from DER, 407' left of centerline, up to 32' AGL/134' MSL. **Rwy 18,** DME on building 588' from DER, 414' left centerline, 15' AGL/118' MSL. **Rwy 36,** bush 104' from DER, 165' right of centerline, 10' AGL/116' MSL.

WHARTON,TX

WHARTON RGNL (ARM)
ORIG 09239 (FAA)

NOTE: **Rwy 32,** vehicle on roads beginning 26' from DER, 312' right of centerline, up to 17' AGL/113' MSL. Buildings beginning 40' from DER, 338' right of centerline, up to 26' AGL/125' MSL. Poles beginning 140' from DER, 467' right of centerline, up to 43' AGL/142' MSL. Tree 828' from DER, 509' right of centerline, 28' AGL/127' MSL. Fence 24' from DER, 288' left of centerline, 4' AGL/103' MSL. Tree 1147' from DER, 425' left of centerline, 41' AGL/140' MSL.