



INSTRUMENT APPROACH PROCEDURE CHARTS

**A** 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**  
BRAZORIA COUNTY ..... **RNAV (GPS) Rwy 17**  
**RNAV (GPS) Rwy 35**  
NA when local weather not available.

**BEAUMONT-PORT ARTHUR, TX**  
SOUTHEASTTEXAS  
RGNL ..... **ILS Rwy 12<sup>12</sup>**  
**LOC BC Rwy 30<sup>12</sup>**  
**RADAR-1<sup>3</sup>**  
**VOR/DME Rwy 34<sup>1</sup>**  
**VOR Rwy 12<sup>1</sup>**

<sup>1</sup>Category E, 900-2¼.  
<sup>2</sup>NA when control tower closed.  
<sup>3</sup>NA when control tower not in operation.

**COLLEGE STATION, TX**  
EASTERWOOD FIELD ..... **ILS or LOC Rwy 34<sup>12</sup>**  
**LOC BC Rwy 16<sup>23</sup>**  
**RNAV (GPS) Rwy 10<sup>3</sup>**  
**RNAV (GPS) Rwy 16<sup>3</sup>**  
**RNAV (GPS) Rwy 28<sup>3</sup>**  
**RNAV (GPS) Rwy 34<sup>3</sup>**  
**VOR/DME Rwy 28<sup>4</sup>**  
**VOR or TACAN Rwy 10<sup>3</sup>**

<sup>1</sup>ILS, Category D, 700-2¼; Category E, 900-3.  
LOC, Category D, 800-2¼; Category E, 900-3.  
<sup>2</sup>NA when control tower closed.  
<sup>3</sup>Category D, 800-2¼; Category E, 900-3.  
<sup>4</sup>Category D, 800-2¼.

NAME ALTERNATE MINIMUMS  
**GALVESTON, TX**  
SCHOLES INTL  
AT GALVESTON ..... **ILS or LOC Rwy 13<sup>1</sup>**  
**RNAV (GPS) Rwy 13<sup>2</sup>**  
**RNAV (GPS) Rwy 17<sup>2</sup>**  
<sup>1</sup>ILS, Category E, 700-2¼; LOC, Category E, 800-2¼.  
<sup>2</sup>Category E 800-2¼.

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

ELLINGTON FIELD ..... **ILS Rwy 17R<sup>1</sup>**  
**ILS Rwy 22<sup>1</sup>**  
**ILS Rwy 35L<sup>1</sup>**  
**RNAV (GPS) Rwy 22<sup>2</sup>**  
<sup>1</sup>ILS, Category E, 700-2¼. LOC, Category E, 800-2¼.  
<sup>2</sup>Category E, 800-2¼.

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# TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

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## INSTRUMENT APPROACH PROCEDURE CHARTS

### IFR TAKE-OFF 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 take-off minimums other than standard, are listed below. Take-off 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 a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

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 take-off rules and establishes take-off 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) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

#### NAME TAKE-OFF MINIMUMS

##### ANGLETON/LAKE JACKSON, TX

BRAZORIA COUNTY (LBX)

AMDT 1 08157 (FAA)

NOTE: **Rwy 35**, tree 1510' from departure end of runway, 721' left of centerline, 48' AGL/68' MSL.

##### BAYTOWN, TX

R W J AIRPARK

NOTE: **Rwy 8**, trees abeam departure end of runway, 147' left of centerline, 45' AGL/72' MSL. Poles 236' from departure end of runway, 90' right of centerline, 30' AGL/57' MSL. **Rwy 14**, trees 314' from departure end of runway, 44' right of centerline, 35' AGL/87' MSL. Road 125' from departure end of runway, 15' AGL/42' MSL. **Rwy 26**, powerlines 460' from departure end of runway, 32' AGL/62' MSL. Road 550' from departure end of runway, 15' AGL/50' MSL. **Rwy 32**, road 220' from departure end of runway, 15' AGL/48' MSL.

#### NAME TAKE-OFF MINIMUMS

##### BEAUMONT, TX

BEAUMONT MUNI (BMT)

ORIG 09015 (FAA)

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

##### BRENHAM, TX

BRENHAM MUNI

DEPARTURE PROCEDURE: **Rwys 16, 34**, climb to 700, prior to turning westbound.

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## BRYAN, TX

### COULTER FIELD

NOTE: **Rwy 15**, vehicle on road 266' from departure end of runway, on centerline, 17' AGL/386' MSL. Multiple trees and poles beginning 169' from departure end of runway, 339' right of centerline, up to 20' AGL/389' MSL. Multiple trees and poles beginning 203' from departure end of runway, 245' left of centerline, up to 35' AGL/400' MSL. **Rwy 33**, multiple poles and T-L towers beginning 36' from departure end of runway, 207' left of centerline, up to 35' AGL/382' MSL. Trees 508' from departure end of runway, 290' right of centerline, 25' AGL/371' MSL.

## CALDWELL, TX

### CALDWELL MUNI

TAKE-OFF MINIMUMS: **Rwy 33**, 300-1.

## COLLEGE STATION, TX

### EASTERWOOD FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 300-1½ or std. with a min. climb of 207' per NM to 700.

NOTE: **Rwy 4**, building 1.3 NM from departure end of runway, 257' left of centerline, 214' AGL/564' MSL. Trees 434' from departure end of runway, 303' right of centerline, 25' AGL/343' MSL. **Rwy 10**, trees 10' from departure end of runway, 321' right of centerline, 26' AGL/344' MSL. Trees 114' from departure end of runway, 350' left of centerline, 22' AGL/340' MSL. **Rwy 22**, trees 71' from departure end of runway, 381' right of centerline, 25' AGL/332' MSL. Trees 122' from departure end of runway, 382' left of centerline, 26' AGL/333' MSL. **Rwy 28**, trees 1842' from departure end of runway, 422' left of centerline, 65' AGL/385' MSL. Trees 840' from departure end of runway, 367' right of centerline, 30' AGL/350' MSL. **Rwy 34**, trees 818' from departure end of runway, 639' left of centerline 48' AGL/369' MSL. Trees 1091' from departure end of runway, 646' right of centerline, 31' AGL/352' MSL.

## EAGLE LAKE, TX

### EAGLE LAKE

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

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

## GALVESTON, TX

### SCHOLLES INTL AT GALVESTON (GLS)

#### AMDT 4 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-1 or std. w/ min. climb of 502' per NM to 300.

NOTE: **Rwy 13**, bush 381' from departure end of runway, 533' left of centerline, 15' AGL/20' MSL. Fence 201' from departure end of runway, 490' left of centerline, 6' AGL/11' MSL. Tree 343' from departure end of runway, 468' right of centerline, 12' AGL/17' MSL. **Rwy 17**, building 3057' from departure end of runway, 339' left of centerline, 123' AGL/130' MSL. Multiple poles beginning 2034' from departure end of runway, 87' right of centerline, up to 60' AGL/70' MSL. Multiple transmission towers beginning 636' from departure end of runway, 551' right of centerline, up to 55' AGL/60' MSL. Tree 460' from departure end of runway, 316' right of centerline, 22' AGL/29' MSL. **Rwy 31**, multiple cranes beginning 4341' from departure end of runway, 1017' left of centerline, up to 131' AGL/131' MSL. **Rwy 35**, tree 730' from departure end of runway, 501' right of centerline, 27' AGL/32' MSL.

## HOUSTON, TX

### DAVID WAYNE HOOKS MEMORIAL (DWH)

#### AMDT 3 08157 (FAA)

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

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

## ELLINGTON FIELD (EFD)

#### AMDT 2 08157 (FAA)

NOTE: **Rwy 17R**, pole 1489' from departure end of runway, 817' right of centerline, 40' AGL/74' MSL.

**Rwy 22**, antenna on building 1998' from departure end of runway, 598' right of centerline, 54' AGL/83' MSL. Obstruction light on glide slope 327' from departure end of runway, 543' left of centerline, 39' AGL/68' MSL. **Rwy 35R**, tree 1597' from departure end of runway, 32' left of centerline, 33' AGL/80' MSL. **Rwy 35L**, multiple trees beginning 1118' from departure end of runway, 679' right of centerline, up to 37' AGL/77' MSL. Crane 2352' from departure end of runway, 1024' left of centerline, 37' AGL/97' MSL.

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## HOUSTON, TX (CON'T)

GEORGE BUSH INTERCONTINENTAL/  
HOUSTON (IAH)

AMDT 2 08157 (FAA)

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

## HOUSTON EXECUTIVE (TME)

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

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

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

## HOUSTON, TX (CON'T)

LONE STAR EXECUTIVE (CXO)  
AMDT 2 08157 (FAA)

NOTE: **Rwy 1**, multiple trees beginning 1899' from departure end of runway, 11' left of centerline, up to 80' AGL/314' MSL. Obstruction light on glideslope 387' from departure end of runway, 404' right of centerline, 23' AGL/258' MSL. Tower 457' from departure end of runway, 387' right of centerline, 45' AGL/275' MSL. Multiple trees beginning 788' from departure end of runway, 134' right of centerline, up to 79' AGL/313' MSL. **Rwy 14**, multiple trees beginning 1655' from departure end of runway, 408' left of centerline, up to 81' AGL/300' MSL. Obstruction light on DME 401' from departure end of runway, 266' right of centerline, 21' AGL/255' MSL. Multiple trees beginning 1480' from departure end of runway, 80' right of centerline, up to 77' AGL/306' MSL. **Rwy 19**, multiple trees beginning 17' from departure end of runway, 157' left of centerline, up to 95' AGL/315' MSL. Multiple trees beginning 68' from departure end of runway, 156' right of centerline, up to 80' AGL/305' MSL. **Rwy 32**, vehicle and road 602' from departure end of runway, 551' left of centerline, 15' AGL/257' MSL. Pole 1411' from departure end of runway, 458' left of centerline, 29' AGL/268' MSL. Tree 2448' from departure end of runway, 990' right of centerline, 106' AGL/325' MSL.

## PEARLAND RGNL

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

## SUGAR LAND RGNL (SGR)

AMDT 7 08157 (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 departure end of runway, 172' right of centerline, up to 44' AGL/124' MSL. Railroad 110' from departure end of runway, 10' left of centerline, 23' AGL/104' MSL. Multiple poles beginning 135' from departure end of runway, 270' left of centerline, up to 44' AGL/111' MSL. **Rwy 35**, vehicle and road 65' from departure end of runway, 2' right of centerline, 15' AGL/96' MSL. Multiple trees beginning 37' from departure end of runway, 275' right of centerline, up to 81' AGL/164' MSL. DME antenna 380' from departure end of runway, 253' right of centerline, 24' AGL/100' MSL. Multiple trees beginning 83' from departure end of runway, 65' left of centerline, up to 81' AGL/155' MSL.

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**HOUSTON, TX (CON'T)**

WEISER AIR PARK (EYQ)

AMDT 2 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 200-1 or std. w/min. climb of 399' per NM to 400.

NOTE: **Rwy 9**, tank 4127' from departure end of runway, 1455' left of centerline, 147' AGL/282' MSL. **Rwy 27**, railroad 462' from departure end of runway, 555' left of centerline, 23' AGL/165' MSL. Vehicle and road 650' from departure end of runway, 7' left of centerline, 17' AGL/159' MSL.

**WEST HOUSTON (IWS)**

AMDT 3 09295 (FAA)

NOTE: **Rwy 15**, vehicles on roadway beginning abeam DER, left and right of centerline, up to 15' AGL/124' MSL. Building 177' from DER, 398' left of centerline, 18' AGL/126' MSL. Trees beginning 178' from DER, 289' right of centerline, up to 100' AGL/209' MSL. **Rwy 33**, building 265' from DER, 364' left of centerline, 33' AGL/143' MSL. Trees beginning 2706' from DER, 700' left of centerline, up to 100' AGL/214' MSL. Trees beginning 3159' from DER, 747' right of centerline, up to 100' AGL/216' MSL.

**HOUSTON, TX (CON'T)**

WILLIAM P. HOBBY (HOU)

AMDT 5 08157 (FAA)

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

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## HUNTSVILLE, TX

### HUNTSVILLE MUNI

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

## JACKSONVILLE, TX

### CHEROKEE COUNTY

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 departure end of runway, 81' right of centerline, 0' AGL/69' MSL. Trees beginning 64' from departure end of runway, 277' right of centerline, up to 50' AGL/119' MSL. Tree 111' from departure end of runway, 516' left of centerline, 50' AGL/124' MSL. Terrain 172' from departure end of runway, 119' left of centerline, 0' AGL/74' MSL. **Rwy 31**, Terrain 109' from departure end of runway, 134' left of centerline, 0' AGL/74' MSL. Tree 536' from departure end of runway, 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 departure end of runway, 276' right of centerline, 100' AGL/432' MSL. Tree 612' from departure end of runway, 551' left of centerline, 100' AGL/422' MSL. Road with vehicle 942' from departure end of runway, 667' left of centerline, 15' AGL/350' MSL.

## LA PORTE, TX

### LA PORTE MUNI (T41)

#### AMDT 4 08157 (FAA)

DEPARTURE PROCEDURE: **Rwy 30**, climb heading 301° to 700 before turning right. **Rwy 12**, climb heading 121° to 500 before turning right.  
NOTE: **Rwy 5**, stack 2.1 NM from departure end of runway, 3297' left of centerline, 330' AGL/334' MSL. **Rwy 12**, pole 131' from departure end of runway, 261' right of centerline, 14' AGL/38' MSL. Stack 2.2 NM from departure end of runway, 1.6 NM right of centerline, 479' AGL/499' MSL.

## LIBERTY, TX

### LIBERTY MUNI

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

DEPARTURE PROCEDURE: **Rwys 16, 34**, eastbound departures climb runway heading to 2100 before proceeding on course.

## LIVINGSTON, TX

### LIVINGSTON MUNI

TAKE-OFF MINIMUMS: **Rwys 12, 30**, 300-1.

## LUFKIN, TX

### ANGELINA COUNTY

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

## NACOGDOCHES, TX

### A. L. MANGHAM JR. RGNL

TAKE-OFF MINIMUMS: **Rwy 36**, 1000-3 or std. with a min. climb of 220' per NM to 1000.

DEPARTURE PROCEDURE: **Rwys 15, 18, 33, 36**, climb runway heading to 1000 before proceeding on course.

## NAVASOTA, TX

### NAVASOTA MUNI

DEPARTURE PROCEDURE: **Rwy 35**, climb runway heading to 2100 before turning eastbound.

## ORANGE, TX

### ORANGE COUNTY (ORG)

#### ORIG 09295 (FAA)

TAKE-OFF 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.

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# TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

SC-5

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## PALESTINE, TX

### PALESTINE MUNI

TAKE-OFF 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 departure end of runway, 2404' left of centerline, up to 100' AGL/739' MSL. Terrain 1.6 NM from departure end of runway, 1545' right of centerline, 601' MSL.

## VICTORIA, TX

### VICTORIA RGNL (VCT)

#### ORIG 08325 (FAA)

NOTE: **Rwy 12R**, trees beginning 810' from departure end of runway, 606' right of centerline, up to 40' AGL/139' MSL. Train on railroad 797' from departure end of runway, 303' right of centerline, 23' AGL/148' MSL. Pole 947' from departure end of runway, 62' right of centerline, 32' AGL/131' MSL. Hopper 1124' from departure end of runway, 417' left of centerline, 35' AGL/134' MSL. **Rwy 17**, DME on building 598' from departure end of runway, 421' left of centerline, 19' AGL/118' MSL. **Rwy 35**, bush 105' from departure end of runway, 171' right of centerline, 12' AGL/116' MSL. Bush 247' from departure end of runway, 92' right of centerline, 12' 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.

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