READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.

WARNING: TAXIING NORTH ON TWY "L" NOT AUTHORIZED.
NOTE: RADAR Required.

TOP ALTITUDE: 5000

NOTE: Chart not to scale.

SAN ANTONIO, TEXAS
SAN ANTONIO INTL (SAT)
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 4, 13L 13R, 22, 31L, 31R: Climb on assigned heading for RADAR vectors to SAT VORTAC. Maintain 5000, thence . . .

. . . on transition/route. Expect filed altitude 10 minutes after departure.

GOBBY TRANSITION (ALAMO2.GOBBY): From over SAT VORTAC on SAT R-002 to GOBBY/SAT 27 DME.
GOOCH SPRINGS TRANSITION (ALAMO2.AGJ): From over SAT VORTAC on SAT R-002 to GOBBY/SAT 27 DME, then on AGJ R-185 to AGJ VORTAC.
HENLY TRANSITION (ALAMO2.HENLY): From over SAT VORTAC on SAT R-359 to HENLY/SAT 28 DME.
JUMBO TRANSITION (ALAMO2.JUMBO): From over SAT VORTAC on SAT R-359 to JUMBO/SAT 114 DME.
TAKEOFF MINIMUMS

NOTE: RNAV 1.
NOTE: RADAR Required.
NOTE: DME/DME/IRU or GPS Required.

TOP ALTITUDE: 5000

NOTE: Chart not to scale.
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 037° or as assigned by ATC, expect RADAR vectors to TREVA, thence . . .
TAKEOFF RWYS 13L/R: Climb heading 128° or as assigned by ATC, expect RADAR vectors to TREVA, thence . . .
TAKEOFF RWY 22: Climb heading 217° or as assigned by ATC, expect RADAR vectors to TREVA, thence . . .
TAKEOFF RWYS 31L/R: Climb heading 308° or as assigned by ATC, expect RADAR vectors to TREVA, thence . . .

... on track 305° to TATAR, then on track 305° to LEJON, then on track 304° to ALISS, then on (transition). Maintain 5000, expect filed altitude 10 minutes after departure.

DIANT TRANSITION (ALISS5.DIANT)
FORT STOCKTON TRANSITION (ALISS5.FST)
JUNCTION TRANSITION (ALISS5.JCT)
NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 4, 13L, 13R, 22, 31L, 31R: Climb on assigned heading for RADAR vectors to SAT VORTAC. Maintain 5000, thence...

... on transition/route. Expect filed altitude 10 minutes after departure.

CORPUS CHRISTI TRANSITION (BOWIE7.CRP): From over SAT VORTAC on SAT R-160 to YENNS INT/SAT 35 DME, then on THX R-337 to THX VORTAC, then on THX R-126 and CRP R-305 to CRP VORTAC.

LAREDO TRANSITION (BOWIE7.LRD): From over SAT VORTAC on SAT R-190 to MILET INT/SAT 57 DME, then on LRD R-015 to LRD VORTAC.
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 4, 13L/R, 22, 31L/R: Climb on assigned heading for RADAR vectors to SAT VORTAC, whence . . .

. . . on depicted route to LEJON INT, maintain 5000.
Expect filed altitude 10 minutes after departure.

NOTE: RADAR required.
NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION
TAKEOFF RWYS 4, 13L, 13R, 22, 31L, 31R:
Climb on assigned heading for RADAR vectors to RAYBN, thence. . . .

. . . . On depicted route to LRD VORTAC, maintain 5000. Expect filed altitude 10 minutes after departure.

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: For non-GPS equipped aircraft SAT, THX, and COT DME's must be operational.

TOP ALTITUDE: 5000

SAN ANTONIO INTL (SAT)
SAN ANTONIO, TEXAS
TOP ALTITUDE:
5000

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 4, 13L/R, 22, 31L/R: Climb on assigned heading for RADAR vectors to YENNS. Thence . . .

. . . on depicted route to CRP VORTAC, maintain 5000.
Expect filed altitude 10 minutes after departure.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: For non-GPS equipped aircraft COT, THX, and VCT DMEs must be operational.
NOTE: RNAV 1.

TAKEOFF MINIMUMS

Note: Chart not to scale.
**HOT SPOTS**

An "airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.

A "hot spot" is a runway safety related problem area on an airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness, and training. Hot spots are depicted on airport diagrams as open circles or polygons designated as "HS 1", "HS 2", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

**CITY/AIRPORT** | **HOT SPOT** | **DESCRIPTION**
--- | --- | ---
AUSTIN, TX | HS 1 | E service road, Traffic on crossing Twy G and Twy H.
AUSTIN-BERGSTROM INTL (AUS) | HS 1 | Int of Rwy 26 and Rwy 35.
SAN MARCOS RGNL (HYI) | HS 2 | Int of Rwy 31, Twy F and Rwy 35.
EL PASO, TX | HS 1 | Rwy 08R apch considered active, do not proceed on or cross without ATC clnc especially when taxiing to Rwy 04 via the terminal ramp.
EL PASO INTL (ELP) | HS 2 | Area not visible from twr.
HARLINGEN, TX | HS 1 | Rwy 31 and Rwy 35R apch ends are closely aligned.
MC ALLEN, TX | HS 1 | Rwy 14 hold short marking located in a non-standard location.
MC ALLEN MILLER INTL (MFE) | HS 1 | Twy B and Twy P merge.
MC ALLEN MILLER INTL AIR AND SPACE PORT (MAF) | HS 2 | Area not visible from twr.
SAN ANTONIO, TX | HS 1 | The unpaved portion of the north overrun.
LACKLAND AFB (KELLY FLD ANNEX) (KSKF) | HS 2 | Int of Rwy 16-34, Twy D, and Twy G.
SAN ANTONIO INTL (SAT) | HS 1 | Rwy 31L hold short line on Rwy 04.
SAN ANTONIO INTL (SAT) | HS 2 | Twy G and Twy N in close proximity of Rwy 31L.

*See appropriate Chart Supplement HOT SPOT table for additional information.*
ILS RWY 13R (CAT II)
SAN ANTONIO INTL (SAT)

MISSED APPROACH: Climb to 3100 on heading 128° and SAT VORTAC R-160 to EMBOW INT and hold.

MISSED APPROACH: Climb to 3100 on heading 128° and SAT VORTAC R-160 to EMBOW INT and hold.

MISSED APPROACH: Climb to 3100 on heading 128° and SAT VORTAC R-160 to EMBOW INT and hold.

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MISSED APPROACH: Climb to 3100 on heading 128° and SAT VORTAC R-160 to EMBOW INT and hold.
ILS or LOC RWY 13R
SAN ANTONIO INTL (SAT)

- **AISF-2**
  - MISSED APPROACH: Climb to 3100 on heading 128° and SAT VORTAC R-160 to EMBOW INT and hold.

**D-ATIS**
- 118.9
- 121.5 307.0
- 119.8 257.8
- 121.9 348.6
- 126.7

**San Antonio, Texas**

**Entry Points**

- **LOC/DME I-ANT 110.9**
  - Chan 46
- **APP CRS 128°**
  - Rwy 13R Idg 8502
  - TDZE 809
  - Apt Elev 809
  - Rwy 13L Idg 5519
  - TDZE 797
  - Apt Elev 809

**Center Point**
- 117.5 CSI 122

**Missed Approach Point**
- 116.8 SAT 115
  - Chan 115

**Gnd Con**
- 1448 A
- 1440°
- 3100°

**Localizer**
- 110°
  - I-ANT 13.7
  - Chan 46

**Alternate Missed Approach Fix**
- 1379°
  - I-ANT 7.4
  - Chan 46

**Elev 809°**

- **Tdwz 809°**
  - 139°
  - 797°

**Jupag Fix Minimums**

- **ILS or LOC RWY 13R**
  - 1098°
  - 1098°
  - 308°

**Category**

- **A**
- **B**
- **C**
- **D**

**S-ILS 13R**
- 1009/18
- 200 (200-1/2)

**S-LOC 13R**
- 1440/24
  - 631 (700-1/2)
  - 631 (700-3/4)

**Sidestep 13L**
- 1600-1
  - 803 (800-1/2)

**Circling 13L**
- 1440-1
  - 631 (700-1/2)

**Faf to Map 5.9 Nm**

- **Knots**
  - 60
  - 90
  - 120
  - 150
  - 180

- **Min:**
  - 3:54
  - 3:56
  - 2:57
  - 2:22
  - 1:58

**San Antonio, Texas**

**Amhd 14C 02MAR17**

**SAN ANTONIO INTL (SAT)**

**29°32'N-98°28'W**
Inop table does not apply to S-ILS 4. Circling NA west of Rwys 4 and 13R. Autopilot coupled approach NA below 1189. For inop ALS, increase S-LOC 4 Cat D visibility to 1½ SM. ZINON fix minimums for inop ALS, increase S-LOC 4 Cat D visibility to RVR 5000.

**Amdt 22B 02MAR17**

**LOC/DME  I-SAT**

**109.7**

**Rwy Idg**

**03°**

**TDZE**

**786**

**Apt Elev**

**809**

**INPAD**

**D-ATIS**

**118.9**

**SAN ANTONIO APP CON**

**125.1**

**307.0**

**SAN ANTONIO TOWER**

**119.9**

**257.8**

**GND CON**

**121.9**

**348.6**

**CLNC DEL**

**126.7**

**CPDLC**

**SAN ANTONIO, TEXAS**
For uncompensated Baro-VNAV systems, procedure NA below -4°C (25°F) or above 54°C (130°F). GPS required.

MISSED APPROACH: Climb to 3100 on track 128° to POYIG and track 171° to EMBOW and hold.

Procedure NA for arrivals at CRSS on V68 northeast bound.

Procedure NA for arrivals at MEDIN on V68 west bound.

VGSi and RNAV glidepath not coincident (VGSi Angle 3.00°/TCH 75).

See planview for multiple IF locations.
RNAV (RNP) Z RWY 22
SAN ANTONIO INTL (SAT)

For uncompensated Baro-VNAV systems, procedure NA below -2°C (29°F) or above 54°C (130°F). GPS required.

MISSING APPROACH: Climb to 3100 on track 217° to IMIKE and track 137° to EMBOW and hold.

Procedure NA for arrivals at BRAUN on V68 northeast bound.

IMIKE and track 137° to EMBOW and hold.

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00°/TCH 85).

Amdt 1B 02MAR17

Max 180K until IMIKE

GPS required.

For uncompensated Baro-VNAV systems, procedure NA below -2°C (29°F) or above 54°C (130°F). GPS required.

MISSING APPROACH: Climb to 3100 on track 217° to IMIKE and track 137° to EMBOW and hold.

Procedure NA for arrivals at BRAUN on V68 northeast bound.

IMIKE and track 137° to EMBOW and hold.

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00°/TCH 85).

Amdt 1B 02MAR17

Max 180K until IMIKE

GPS required.

For uncompensated Baro-VNAV systems, procedure NA below -2°C (29°F) or above 54°C (130°F). GPS required.

MISSING APPROACH: Climb to 3100 on track 217° to IMIKE and track 137° to EMBOW and hold.

Procedure NA for arrivals at BRAUN on V68 northeast bound.

IMIKE and track 137° to EMBOW and hold.

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00°/TCH 85).

Amdt 1B 02MAR17

Max 180K until IMIKE

GPS required.
For uncompensated Baro-VNAV systems, procedure NA below -4°C (25°F) or above 54°C (130°F). GPS required.

MISSED APPROACH: Climb to 3000 on track 308° to Hunos then climb to 4200 on track 308° to Reube and hold.

Procedure NA for arrivals at TROOP on V68 northeast bound.

Procedure NA for arrivals at Braun on V68 northeast bound.

Category B

Authorization Required
### RNAV (RNP) Z RWY 4

**SAN ANTONIO INTL (SAT)**

**APP CRS 037°**
- Rwy Idg 8505
- TDZE 786
- Apt Elev 809

**MALS**
- MISSIONS APPROACH: Climb to 3500 ft on track 037° to BISGE and track 030° to SHEPE and hold.

**D-ATIS**
- Procedure NA for arrivals at SHEPE on V68 westbound.

**SAN ANTONIO APP CON**
- 118.9<br>125.1<br>307.0

**SAN ANTONIO TOWER**
- 119.8<br>257.8

**GND CON**
- 121.9<br>348.6

**CLNC DEL**
- 126.7

**CPDLC**
- AUTHORIZATION REQUIRED

**PROCEDURE NA for arrivals at SATVORTAC airway radials 160 CW 331.**

**MISS APCH FIX SHEPE**
- 1849
- 1638

**MISS APCH FIX SAT**
- 1028
- 9102
- 8887
- 951

**SAT**
- SAN ANTONIO
- IAF

**BRAUN**
- RNP 0.70
- RF REQD

**SAN ANTONIO, TEXAS**

**ARW04**
- RNP 0.70
- RF REQD

**BENEY**
- IAF
- RNP 0.70
- RADAR REQD

**SAN ANTONIO,  TEXAS**

**ZEPUT**
- FAF
- RNP 0.70
- RF REQD

**KUBGE**
- IAF

**HARDD**
- IF
- RNP 0.70
- RF REQD

**AIRW04**
- RF REQD

**VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 79°).**
- GP 3.00° TCH 43
- 3.7 NM

**CATEGORY**
- A
- B
- C
- D

**RNP 0.15 DA**
- 1171/50
- 385 (400-1)

**RNP 0.30 DA**
- 1284-1/2
- 498 (500-1/2)

**TRW 1030**
- 830
- 896
- 896
- 893

**ANL 192°**
- 893
- 976
- 977
- 977

**See planview for multiple IF locations.**

**SAN ANTONIO,  TEXAS**

**Orig-C 02MAR17**

**29°32'N-98°28'W**
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -2°C (29°F) or above 54°C (130°F). Circling NA west of Rwys 4 and 13R. DME/DME RNP-0.3 NA. For inop ALS, increase LPV all Cats visibility to 1½ SM, LNAV/VNAV all Cats visibility to 1½ SM, and LNAV Cats C and D visibility to 1½ SM.

MISSED APPROACH:
Climb to 3000 direct ALAMO LOM and hold.

LPV  
DA  
3000

VNAV and LNAV glidepath not coincident  
(VGS A ngle 3.00°/TCH 82).

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -2°C (29°F) or above 54°C (130°F).
Inop table does not apply to LPV. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -4°C (25°F) or above 54°C (130°F). Circling NA west of Rwys 4 and 13R. DME/DME RNP-0.3 NA. For inop ALS, increase LNAV/VNAV all Cats and LNAV Cats C and D visibility to 1%. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -4°C (25°F) or above 54°C (130°F). Circling NA west of Rwys 4 and 13R. DME/DME RNP-0.3 NA. For inop ALS, increase LNAV/VNAV all Cats and LNAV Cats C and D visibility to 1%.

**RNAV (GPS) Y RWY 4**

**SAN ANTONIO INTL (SAT)**

**D-ATIS** 118.9  SAN ANTONIO APP CON 125.1 307.0  SAN ANTONIO TOWER 119.8 257.8  GND CON 121.9 348.6  CLNC DEL 126.7  CPDLC

**RNAV (GPS) Y RWY 4**

**SAN ANTONIO INTL (SAT)**

**D-ATIS** 118.9  SAN ANTONIO APP CON 125.1 307.0  SAN ANTONIO TOWER 119.8 257.8  GND CON 121.9 348.6  CLNC DEL 126.7  CPDLC
# IFR Alternate Minimums

Standard alternate minimums for non-precision approaches and approaches with vertical guidance [NDB, VOR, LOC, TACAN, LDA, SDF, VOR/DME, ASR, RNAV (GPS) or RNAV (RNP)] are 800-2. Standard alternate minimums for precision approaches (ILS, PAR, or GLS) are 600-2. 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, absence of weather reporting service, or lack of adequate navigation coverage. Civil pilots see FAR 91. IFR Alternate Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Minimums Notes for alternate airfield suitability.

<table>
<thead>
<tr>
<th>NAME</th>
<th>ALTERNATE MINIMUMS</th>
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<tbody>
<tr>
<td>ALICE, TX</td>
<td>ALICE INTL (ALI)...........................................</td>
</tr>
<tr>
<td></td>
<td>LOC/DME Rwy 31(^1)</td>
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<td>RNAV (GPS) Rwy 13(^1)</td>
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<td>RNAV (GPS) Rwy 31(^1)</td>
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<td>VOR-A(^2)</td>
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<td>1NA when local weather not available.</td>
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<td>2Categories A, B, 900-2; Category C, 900-2½,</td>
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<td>Category D, 900-3.</td>
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<tr>
<td>ALPINE, TX</td>
<td>ALPINE-CASPARIS MUNI (E38)................................</td>
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<td>RNAV (GPS) Rwy 19(^1)</td>
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<td>RNAV (GPS) Rwy 23(^2)</td>
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<td>1Category B, 1000-2; Category C, 1300-3.</td>
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<tr>
<td></td>
<td>2Category A, 900-2; Category B, 1000-2; Category C, 1300-3.</td>
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<tr>
<td>AUSTIN, TX</td>
<td>AUSTIN EXECUTIVE (EDC).....................................</td>
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<tr>
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<td>RNAV (GPS) Rwy 13</td>
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<td>RNAV (GPS) Rwy 31</td>
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<td>NA when local weather not available.</td>
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<tr>
<td>AUSTIN-BERGSTROM INTL (AUS)</td>
<td>ILS or LOC Rwy 17L(^1)</td>
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<td>ILS or LOC Rwy 17R(^1)</td>
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<td></td>
<td>ILS or LOC Rwy 35L(^2)</td>
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<td></td>
<td>ILS or LOC Rwy 35R(^3)</td>
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<td>RNAV (GPS) Y Rwy 17L(^4)</td>
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<td></td>
<td>RNAV (GPS) Y Rwy 17R(^4)</td>
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<td></td>
<td>RNAV (GPS) Y Rwy 35L(^4)</td>
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<td>RNAV (GPS) Y Rwy 35R(^4)</td>
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<td>1LOC, Category E, 1000-3.</td>
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<td>2ILS, Categories C, D, 700-2; Category E, 1000-3;</td>
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<td>LOC, Category E, 1000-3.</td>
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<td>3LOC, Category E, 1000-3.</td>
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<td>4Category E, 1000-3.</td>
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</tbody>
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<thead>
<tr>
<th>NAME</th>
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<tbody>
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<td>AUSTIN, TX (CON’T)</td>
<td>AUSTIN EXECUTIVE (EDC).....................................</td>
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<tr>
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<td>RNAV (GPS) Rwy 8</td>
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<td>RNAV (GPS) Rwy 13</td>
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<td>RNAV (GPS) Rwy 17</td>
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<td>RNAV (GPS) Rwy 26</td>
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<td>RNAV (GPS) Rwy 31</td>
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<td>RNAV (GPS) Rwy 35</td>
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<td>NA when local weather not available.</td>
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<td></td>
<td>Category D, 800-2½; Category E, 800-2½.</td>
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<tr>
<td>BEEVILLE, TX</td>
<td>BEEVILLE MUNI (BEA).........................................</td>
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<td>RNAV (GPS) Rwy 30</td>
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<td>Category C, 800-2½.</td>
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<td>BIGGS AAF (KBIF), FORT BLISS, TX</td>
<td>RNAV (GPS) Rwy 21</td>
</tr>
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<td>NA when R-5103 in use.</td>
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<tr>
<td>BRADY, TX</td>
<td>CURTIS FIELD (BBD)..........................................</td>
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<td>RNAV (GPS) Rwy 17</td>
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<td>RNAV (GPS) Rwy 35</td>
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<td>NA when local weather not available.</td>
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<tr>
<td>BROWNSVILLE, TX</td>
<td>BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)................</td>
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<td>ILS or LOC Rwy 13(^1)</td>
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<td>LOC BC Rwy 31(^1)</td>
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<td>RNAV (GPS) Rwy 13</td>
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<td></td>
<td>RNAV (GPS) Rwy 18</td>
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<td>VOR or TACAN-A</td>
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<td>NA when control tower closed.</td>
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<td></td>
<td>1NA when local weather not available.</td>
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<tr>
<td>BURNET, TX</td>
<td>BURNET MUNI/KATE CRADDOCK FIELD (BMQ)........................</td>
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<tr>
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<td>RNAV (GPS) Rwy 1</td>
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<tr>
<td></td>
<td>RNAV (GPS) Rwy 19</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available.</td>
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<td>Category C, 800-2½.</td>
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<tr>
<td>NAME</td>
<td>ALTERNATE MINIMUMS</td>
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<td>CASTROVILLE, TX</td>
<td>CCASTROVILLE MUNI (CVB)..................RNAV (GPS) Rwy 16</td>
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<td>RNAV (GPS) Rwy 34</td>
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<td>NA when local weather not available.</td>
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<td>Category C, 900-2¼.</td>
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<tr>
<td>COLEMAN, TX</td>
<td>COLEMAN MUNI (COM).......................RNAV (GPS) Rwy 15</td>
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<td>RNAV (GPS) Rwy 33</td>
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<td>NA when local weather not available.</td>
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<td>Category C, 800-2¼.</td>
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<td>COMANCHE, TX</td>
<td>COMANCHE COUNTY-CITY (MKN)...............RNAV (GPS) Rwy 17</td>
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<td>ILS or LOC Rwy 36</td>
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<td>1ILS, LOC, Category C, 800-2¼; Category D, 800-2¼.</td>
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<td>3Category C, 800-2¼; Category D, 800-2¼; Category E, 800-2¼.</td>
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<td>ROBERT GRAY AAF (GRK).....................ILS or LOC Rwy 15</td>
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<td>LOC/DME BC Rwy 35L</td>
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<td>2NA when local weather not available.</td>
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<td>3NA when control tower closed.</td>
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<td>4Categories A, B, 900-2; Categories C, D, 900-2¼.</td>
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<td>HEBRONVILLE, TX</td>
<td>JIM HOGG COUNTY (HBV).....................RNAV (GPS) Rwy 13</td>
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**02 JAN 2020 to 30 JAN 2020**
<table>
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<tr>
<th>NAME</th>
<th>ALTERNATE MINIMUMS</th>
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<tr>
<td>HONDO, TX</td>
<td>SOUTH TEXAS RGNL AT HONDO (HDO) NDB Rwy 35R RNAV (GPS) Rwy 17L RNAV (GPS) Rwy 35R NA when local weather not available.</td>
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<tr>
<td>INGLESIDE, TX</td>
<td>MC CAMPBELL-PORTER (TFP) RNAV (GPS) Rwy 13 RNAV (GPS) Rwy 31 NA when local weather not available.</td>
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<td>KERRVILLE, TX</td>
<td>KERRVILLE MUNI/LOUIS SCHREINER field (ERV) RNAV (GPS) Rwy 12 RNAV (GPS) Rwy 30 VOR-A NA when local weather not available.</td>
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<td>LAMPASAS, TX</td>
<td>LAMPASAS (LZZ) VOR-A NA when local weather not available.</td>
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<td>LAREDO, TX</td>
<td>LAREDO INTL (LRD) ILS or LOC Rwy 18R LOC BC Rwy 36L RNAV (GPS) Rwy 14 RNAV (GPS) Rwy 18 RNAV (GPS) Rwy 32 RNAV (GPS) Rwy 36L VOR or TACAN Rwy 14 VOR or TACAN Rwy 32 NA when control tower closed.</td>
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<td>MCMILLAN, TX</td>
<td>MCMILLAN MILLER INTL (MFE) ILS or LOC Rwy 14 ILS or LOC Rwy 32 RNAV (GPS) Rwy 14 RNAV (GPS) Rwy 32 VOR Rwy 14 VOR Rwy 32 NA when local weather not available.</td>
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<td>MIDLAND AIRPARK (MDD) RNAV (GPS) Rwy 25 RNAV (GPS) Rwy 34 NA when local weather not available.</td>
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<td>NEW BRAUNFELS, TX</td>
<td>NEW BRAUNFELS RGNL (BAZ) RNAV (GPS) Rwy 13 RNAV (GPS) Rwy 17 RNAV (GPS) Rwy 31 RNAV (GPS) Rwy 35 NA when local weather not available.</td>
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<tr>
<td>ODESSA, TX</td>
<td>ODESSA-SCHLEMEYER field (ODO) RNAV (GPS) Rwy 11 RNAV (GPS) Rwy 20 RNAV (GPS) Rwy 29 VOR-A NA when local weather not available.</td>
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<td>PECOS, TX</td>
<td>PECOS MUNI (PEO) RNAV (GPS) Rwy 14 RNAV (GPS) Rwy 32 NA when local weather not available.</td>
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<td>PLEASANTON, TX</td>
<td>PLEASANTON MUNI (PEZ) RNAV (GPS) Rwy 34 NA when local weather not available.</td>
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<td>PORT ARANSAS, TX</td>
<td>MUSTANG BEACH (RAS) RNAV (GPS) Rwy 12 RNAV (GPS) Rwy 30 NA when local weather not available.</td>
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<td>PORT ISABEL, TX</td>
<td>PORT ISABEL-CAMERON COUNTY (PIL) RNAV (GPS) Rwy 13 NA when local weather not available.</td>
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<td>ROBSTOWN, TX</td>
<td>NUECES COUNTY (RBO) RNAV (GPS) Rwy 13 RNAV (GPS) Rwy 31 NA when local weather not available.</td>
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<td>NAME</td>
<td>ALTERNATE MINIMUMS</td>
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1LOC, Category D, 800-2½, Category E, 800-2¾.
2NA when control tower closed.
3Category E, 800-2¼.
4Category D, 800-2¼.
5Category D, 800-2¾, Category E, 800-2¾.
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. An entry may also be listed that contains only Takeoff Obstacle Notes. 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 textually described below, or published separately as a graphic procedure. If the ODP 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 an 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.

Some ODPs, which are established solely for obstacle avoidance, require a climb in visual conditions to cross the airport, a fix, or a NAVAID in a specified direction, at or above a specified altitude. These procedures are called Visual Climb Over Airport (VCOA). To ensure safe and efficient operations, the pilot must verbally request approval from ATC to fly the VCOA when requesting their IFR clearance.

At some locations where an ODP has been established, a diverse vector area (DVA) may be created to allow radar vectors to be used in lieu of an ODP. DVA information will state that headings will be as assigned by ATC and climb gradients, when applicable, will be published immediately following the specified departure procedure.

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) For aircraft, other than helicopters, having two engines or less – one statute mile visibility. (2) For aircraft having more than two engines – one-half statute mile visibility. (3) For helicopters – one-half statute mile visibility. 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
---|---
ALICE, TX | ALICE INTL (ALI)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

takeoff minimums (obstacle) departure procedures

**ORIG 04106 (FAA)**

**TAKEOFF OBSTACLE NOTES:**

- **Rwy 17**, multiple poles beginning 601' from DER, 413' right to 340' left of centerline, up to 36' AGL/204' MSL. Multiple trees beginning 205' from DER, 348' left to 317' right of centerline, up to 26' AGL/194' MSL. **Rwy 26**, building 797' from DER, 366' left of centerline, 30'AGL/208' MSL. Tree 812' from DER, 301' left of centerline, 27' AGL/205' MSL. Rod on OL DME, 715' from DER, 258' right of centerline, 21' AGL/199' MSL. Steel post 83' from DER, 344' right of centerline, 4' AGL/181' MSL. **Rwy 31**, rod on OL DME 388' from DER, 256' left of centerline, 21' AGL/199' MSL. Tree 439' from DER, 608' left of centerline, 16' AGL/194' MSL. Steel post 2' from DER, 251' right of centerline, 164' AGL/181' MSL. Tree 1067' from DER, 359' right of centerline, 28' AGL/206' MSL. **Rwy 35**, windmill 1461' from DER, 164' left of centerline, 140' AGL/214' MSL. Bush 330' from DER, 287' right of runway, 14' AGL/189' MSL.

### NAME | TAKEOFF MINIMUMS
---|---
ALPINE, TX | ALPINE-CASPARIS MUNI (E38)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

takeoff minimums (obstacle) departure procedures

**AMDT 5 12208 (FAA)**

**TAKEOFF MINIMUMS:** Rwy 23, NA - obstacles. Rwy 19, std. w/ min. climb of 432' per NM to 6900 or 1800 -2½ for climb in visual conditions.

**DEPARTURE PROCEDURE:** Rwy 1, climb heading 029° to 5300 then climbing left turn direct BWR NDB, continue climb in BWR NDB holding pattern (hold N, LT, 194° inbound) to 8600 before proceeding on course. (ADF required) Rwy 5, climbing left turn direct BWR NDB, continue climb in BWR NDB holding pattern (hold N, LT, 194° inbound) to 8600 before proceeding on course. (ADF required) Rwy 19, climbing left turn direct BWR NDB, continue climb in BWR NDB holding pattern (hold N, LT, 194° inbound) to 8600 before proceeding on course. (ADF required) Rwy 23, NA - obstacles.

**CON’T**
ALPINE, TX (CON’T)
ALPINE-CASPARIS MUNI (E38) (CON’T)
TAKEOFF OBSTACLE NOTES: Rwy 1, Poles, sign and tree beginning 13’ from DER, 228’ right of centerline, up to 33’ AGL/4472’ MSL. Vehicles on road and fence beginning 10’ from DER, 274’ left of centerline, up to 15’ AGL/4463’ MSL. Rwy 5, vehicles on road, poles, tree, sign and antenna beginning 18’ from DER, 165’ right of centerline, up to 38’ AGL/4477’ MSL. Poles, trees and sign beginning 13’ from DER, 240’ left of centerline, up to 37’ AGL/4476’ MSL. Rwy 19, Vehicles on road, poles and terrain beginning 32’ from DER, 60’ right of centerline, up to 43’ AGL/4562’ MSL. Vehicles on road, poles, trees, sign and windmill beginning 2’ from DER, 153’ left of centerline, up to 37’ AGL/4556’ MSL.

AUSTIN, TX
AUSTIN-BERGSTROM INTL (AUS)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 17341 (FAA)
DEPARTURE PROCEDURE: Rwy 35L, climb heading 355° to 1700 before turning left. Rwy 35R, climb heading 355° to 1300 before turning left.
TAKEOFF OBSTACLE NOTES: Rwy 17L, tree 497’ from DER, 576’ left of centerline, 507’ MSL. Tree 617’ from DER, 585’ right of centerline, 498’ MSL. Trees beginning 643’ from DER, 663’ left of centerline, up to 517’ MSL. Rwy 17R, tree 1006’ from DER, 730’ right of centerline, 519’ MSL. Rwy 35R, tree 816’ from DER, 663’ right of centerline, 526’ MSL.

AUSTIN EXECUTIVE (EDC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 17229 (FAA)
TAKEOFF MINIMUMS: Rwys 16, 34, NA-Environmental. TAKEOFF OBSTACLE NOTES: Rwy 31, pole and trees beginning 900’ from DER, 258’ left of centerline, up to 669’ MSL. Transmission line tower 1931’ from DER, 911’ right of centerline, 83’ AGL/670’ MSL. Transmission line tower 2325’ from DER, 878’ right of centerline, 89’ AGL/682’ MSL. Poles beginning 2362’ from DER, 590’ right of centerline, up to 113’ AGL/707’ MSL. Transmission line tower 2568’ from DER, 1159’ left of centerline, 77’ AGL/697’ MSL. Transmission line tower 3692’ from DER, 437’ left of centerline, 122’ AGL/728’ MSL. Transmission line tower 4411’ from DER, 1110’ left of centerline, 135’ AGL/749’ MSL.

AUSTIN, TX (CON’T)
SAN MARCOS RGNL (HYI)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2B 17229 (FAA)
DEPARTURE PROCEDURE: Rwy 31, climb heading 306° to 1500 before turning right. Rwy 35, climb heading 006° to 2500 before turning left.
TAKEOFF OBSTACLE NOTES: Rwy 8, sign 1’ from DER, 250’ left of centerline, 3’ AGL/583’ MSL. Tree 942’ from DER, 259’ left of centerline, 612’ MSL. Rwy 13, tree 2505’ from DER, 194’ right of centerline, 71’ AGL/637’ MSL. Tree 2615’ from DER, 90’ right of centerline, 75’ AGL/639’ MSL. Trees beginning 2639’ from DER, 139’ right of centerline, up to 80’ AGL/646’ MSL. Rwy 17, bush 26’ from DER, 74’ left of centerline, 2’ AGL/576’ MSL. Rwy 20, REIL 9’ from DER, 90’ right of centerline, 4’ AGL/588’ MSL. Tree 1073’ from DER, 684’ right of centerline, 621’ MSL. Poles and trees beginning 1206’ from DER, 394’ right of centerline, up to 50’ AGL/638’ MSL. Rwy 31, trees beginning 912’ from DER, 613’ right of centerline, up to 622’ MSL. Pole and tree beginning 1046’ from DER, 650’ right of centerline, up to 34’ AGL/631’ MSL. Tree 1287’ from DER, 718’ left of centerline, 627’ MSL. Rwy 35, sign 25’ from DER, 198’ left of centerline, 3’ AGL/597’ MSL. Tree 2562’ from DER, 1113’ left of centerline, 659’ MSL. Tree 3227’ from DER, 162’ left of centerline, 54’ AGL/676’ MSL. Trees beginning 3540’ from DER, 51’ left of centerline, up to 52’ AGL/687’ MSL. Tree 3655’ from DER, 362’ right of centerline, 54’ AGL/692’ MSL. Trees beginning 3664’ from DER, 11’ right of centerline, up to 54’ AGL/693’ MSL. Tree 3727’ from DER, 81’ left of centerline, 52’ AGL/688’ MSL. Tree 3741’ from DER, 94’ left of centerline, 52’ AGL/690’ MSL. Tree 3972’ from DER, 40’ left of centerline, 48’ AGL/696’ MSL. Tree 4131’ from DER, 37’ right of centerline, 42’ AGL/699’ MSL. Tree 4146’ from DER, 33’ right of centerline, 43’ AGL/700’ MSL. Pole and trees beginning 4150’ from DER, 15’ right of centerline, up to 44’ AGL/702’ MSL. Tree 4209’ from DER, 10’ left of centerline, 39’ AGL/701’ MSL. Tree 4222’ from DER, 73’ right of centerline, 42’ AGL/704’ MSL. Tree 4225’ from DER, 25’ left of centerline, 38’ AGL/702’ MSL. Trees beginning 4229’ from DER, 35’ right of centerline, up to 47’ AGL/708’ MSL. Trees beginning 4406’ from DER, 160’ right of centerline, up to 36’ AGL/709’ MSL. Trees beginning 4426’ from DER, 278’ right of centerline, up to 36’ AGL/711’ MSL. Pole, buildings, and trees beginning 4435’ from DER, 123’ right of centerline, up to 47’ AGL/720’ MSL. Pole and trees beginning 4450’ from DER, 16’ left of centerline, 36’ AGL/707’ MSL. Pole, telephone line, and trees beginning 4554’ from DER, 10’ right of centerline, up to 35’ AGL/722’ MSL. Tree 4785’ from DER, 1629’ left of centerline, 716’ MSL. Trees beginning 5071’ from DER, 153’ left of centerline, up to 49’ AGL/738’ MSL.

BALLINGER, TX
BRUCE FIELD (E30)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 11265 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 17, trees beginning 1902’ from DER, 661’ right of centerline, up to 100’ AGL/1859’ MSL. Rwy 35, trees, building, and road beginning 29’ from DER, 210’ left of centerline, up to 100’ AGL/1839’ MSL. Tree and poles beginning 887’ from DER, 429’ right of centerline, up to 37’ AGL/1772’ MSL.
BEEVILLE, TX
BEEVILLE MUNI (BEA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 16147 (FAA)
TAKEOFF MINIMUMS: Rwys 18, 36, NA-environmental. Rwy 30, 300-2 or std. w/ min. climb of 239' per NM to 700.
TAKEOFF OBSTACLE NOTES: Rw 12, pole, and trees beginning 64' from DER, 290' right of centerline, up to 29' AGL/272' MSL. Tree, road, and pole beginning 153' from DER, 9' right of centerline, up to 33' AGL/275' MSL. Trees beginning 756' from DER, 50' left of centerline, up to 279' MSL. Trees and pole beginning 933' from DER, 30' right of centerline, up to 282' MSL. Rw 30, pole, tree, and building beginning 117' from DER, 290' left of centerline, up to 32' AGL/301' MSL. Tree 1054' from DER, 574' left of centerline, 307' MSL. Tree 1835' from DER, 452' right of centerline, 319' MSL. Pole and trees beginning 1875' from DER, 287' left of centerline, up to 323' MSL. Tree beginning 1907' from DER, 246' right of centerline, up to 53' AGL/339' MSL. Trees and poles beginning 1934' from DER, 100' left of centerline, up to 336' MSL. Tower 1.4 NM from DER, 2568' right of centerline, 230' AGL/542' MSL.

BIG LAKE, TX
REAGAN COUNTY (E41)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 18144 (FAA)
TAKEOFF MINIMUMS: Rwys 9, 27, NA - environmental. DEPARTURE PROCEDURE: Rw 16, fly heading 161° to 3300 before turning left.
TAKEOFF OBSTACLE NOTES: Rw 16, road 384' from DER, 603' right of centerline, 17' AGL/2716' MSL.

BIGGS AAF (KBIF)
FORT BLISS, TX
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 19339
DEPARTURE PROCEDURE: Rw 3, climbing right turn to intercept ELP VORTAC R-330 to ELP, thence... Rw 21, climbing left turn to intercept ELP VORTAC R-330 to ELP, thence... continue climb in ELP holding pattern (hold east, left turns, 261' inbound) to cross ELP at or above MEA for route of flight before proceeding on course. Procedure NA for TACAN-only equipped aircraft.
TAKEOFF OBSTACLE NOTES: Rw 21, pole 1978' from DER, 840' left of cntrln, 3961' MSL. Pole, 4413' from DER, 1663' right of cntrln, 131' AGL/4025' MSL.

BRADY, TX
CURTIS FIELD (BBD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 08045 (FAA)
TAKEOFF MINIMUMS: Rwys 8, 26, NA-Environmental. TAKEOFF OBSTACLE NOTES: Rw 17, Light poles, trees, fence, terrain, and vehicle on road beginning 50' from DER, 362' left of centerline, up to 30' AGL/1827' MSL. Trees beginning 17' from DER, 216' right of centerline, up to 30' AGL/1818' MSL.

BROWNSVILLE, TX
BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 16287 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 13, trees and bushes beginning 32' from DER, 399' left of centerline, up to 30' AGL/50' MSL. Trees, bushes, pole and building beginning 751' from DER, 191' right of centerline, up to 44' AGL/64' MSL. Rw 18, trees and pole beginning 56' from DER, 61' left of centerline, up to 53' AGL/78' MSL. Trees and poles beginning 1011' from DER, 96' right of centerline, up to 44' AGL/69' MSL. Rw 31, airplanes on taxiway beginning 371' from DER, 563' right of centerline, up to 45' AGL/64' MSL. Trees beginning 1141' from DER, 567' right of centerline, up to 37' AGL/52' MSL. Rw 36, pole and trees beginning 695' from DER, 140' right of centerline, up to 56' AGL/71' MSL. Trees beginning 718' from DER, 84' left of centerline, up to 63' AGL/78' MSL.

BROWNWOOD, TX
BROWNWOOD RGNL (BWD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 11293 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 13, trees beginning 1523' from DER, 844' right of centerline, up to 47' AGL/1412' MSL. Rw 17, trees beginning 797' from DER, 649' left of centerline, up to 33' AGL/1398' MSL. Trees beginning 205' from DER, 640' right of centerline, up to 31' AGL/1393' MSL. Building 737' from DER, 253' right of centerline, 29' AGL/1391' MSL. Rw 35, trees beginning 77' from DER, 272' left of centerline, up to 49' AGL/1411' MSL. Trees beginning 771' from DER, 282' right of centerline, up to 46' AGL/1418' MSL.

BURNEY, TX
BURNEY MUNI KATE CRADDOCK FIELD (BMQ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 19003 (FAA)
DEPARTURE PROCEDURE: Rw 1, climb heading 009° to 1700 before turning left.
TAKEOFF OBSTACLE NOTES: Rw 1, trees beginning 502' from DER, 28' left of centerline, up to 55' AGL/1355' MSL. Trees beginning 233' from DER, 38' right of centerline, up to 55' AGL/1335' MSL. Trees beginning 1502' from DER, 30' left of centerline, up to 55' AGL/1375' MSL. Rw 19, trees beginning 158' from DER, 63' left of centerline, up to 55' AGL/1286' MSL. Trees beginning 1194' from DER, 15' right of centerline, up to 55' AGL/1315' MSL.

CARRIZO SPRINGS, TX
DIMMIT COUNTY (CZT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 87267 (FAA)
DEPARTURE PROCEDURE: Rw 31, climb runway heading to 1200 prior to left turn to avoid 1114° antenna west of airport.
CASTROVILLE, TX
CASTROVILLE MUNI (CVB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 15288 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 16, trees beginning 103’ from DER, 361’ left of centerline, up to 50’ AGL/787’ MSL. Trees beginning 221’ from DER, 347’ right of centerline, up to 50’ AGL/794’ MSL. Rwy 34, agriculture equipment beginning 1’ from DER, 55’ left of centerline, up to 15’ AGL/790’ MSL. Road beginning 107’ from DER, left and right of centerline, up to 15’ AGL/789’ MSL. Trees beginning 1928’ from DER, 5’ right of centerline, up to 50’ AGL/838’ MSL. Trees beginning 2322’ from DER, 685’ left of centerline, up to 50’ AGL/851’ MSL. Pole 1483’ from DER. 834’ right of centerline, 37’ AGL/816’ MSL. Pole 2255’ from DER, 247’ right of centerline, 52’ AGL/831’ MSL. Antenna on silo 2239’ from DER, 911’ left of centerline, 88’ AGL/870’ MSL.

COLEMAN, TX
COLEMAN MUNI (COM)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 11069 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 15, trees beginning 792’ from DER, 67’ right of centerline, up to 100’ AGL/1774’ MSL. Rwy 33, cranes beginning 1010’ from DER, 28’ left of centerline, up to 65’ AGL/1774’ MSL. Cranes beginning 2289’ from DER, 13’ right of centerline, up to 65’ AGL/1774’ MSL.

COMANCHE, TX
COMANCHE COUNTY-CITY (MKN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 06047 (FAA)
TAKEOFF MINIMUMS: Rwys 13, 31, NA-Environmental.
TAKEOFF OBSTACLE NOTES: Rwy 17, road at DER, 134’ right of centerline, 15’ AGL/1394’ MSL. Road 784’ from DER, 324’ right of centerline, 15’ AGL/1404’ MSL. Rwy 35, trees beginning 464’ from DER, across centerline, up to 50’ AGL/1429’ MSL.

CORPUS CHRISTI, TX
CORPUS CHRISTI INTL (CRP)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 16147 (FAA)
TAKEOFF MINIMUMS: Rwys 36, 400-2 or std. w/min. climb of 235’ per NM to 600.
DEPARTURE PROCEDURE: Rwy 31, Climb heading 312° to 600 before turning left.
TAKEOFF OBSTACLE NOTES: Rwys 13, vehicles on road and wind cone beginning 2’ from DER, 280’ right of centerline, up to 53’ MSL. Vehicles on road 69’ from DER, 337’ right of centerline, 54’ MSL. Rwys 18, vehicles on road beginning 301’ from DER, 103’ left of centerline, up to 53’ MSL. Rwys 31, vehicles on road 22’ from DER, 65’ right of centerline, 58’ MSL. Poles beginning 765’ from DER, 616’ right of centerline, up to 36’ AGL/75’ MSL. Rwys 36, vehicles on road beginning 261’ from DER, 444’ right of centerline, up to 52’ MSL. Vehicles on road 490’ from DER, 604 left of centerline, 54’ MSL. Light poles beginning 1217’ from DER, 648’ right of centerline, up to 31’ AGL/74’ MSL. Light poles beginning 1241’ from DER, 665’ left of centerline, up to 31’ AGL/74’ MSL. Light pole beginning 1294’ from DER, 799’ right of centerline, 31’ AGL/75’ MSL. Light pole 1330’ from DER, 850’ left of centerline, 32’ AGL/75’ MSL. Refinery 1.9 NM from DER, 180’ right of centerline, 318’ AGL/344’ MSL. Tower 2.1 NM from DER, 3773’ left of centerline, 401’ AGL/423’ MSL.

CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)
CORPUS CHRISTI, TX
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 15232
TAKEOFF OBSTACLE NOTES: Rwys 13L, pylons 3366’ from DER, 452’ left of centerline, 91’ AGL/102’ MSL. Pylon 4193’ from DER, 36’ left of centerline, 79’ AGL/104’ MSL. Pylon 3997’ from DER, 688’ left of centerline, 60’ AGL/87’ MSL. Terrain 570’ from DER, 653’ right of centerline, 33’ MSL. Terrain 651’ from DER, 644’ right of centerline, 33’ MSL. Terrain 413’ from DER, 547’ left of centerline, 33’ MSL. Terrain 47’ from DER, 500’ left of centerline, 35’ MSL. Terrain 46’ from DER, 512’ left of centerline, 35’ MSL. Pylon 4518’ from DER, 1117’ right of centerline, 79’ AGL/107’ MSL. Pylon 4675’ from DER, 1696’ right of centerline, 79’ AGL/103’ MSL. Pylon 4346’ from DER, 542’ right of centerline, 79’ AGL/101’ MSL. Rwys 13R, pylon 4743’ from DER, 786’ left of centerline, 79’ AGL/104’ MSL. Terrain 443’ from DER, 550’ right of centerline, 33’ MSL. Terrain 380’ from DER, 602’ right of centerline, 33’ MSL. Terrain 247’ from DER, 550’ right of centerline, 33’ MSL. Terrain 190’ from DER, 555’ right of centerline, 33’ MSL. Terrain 427’ from DER, 614’ left of centerline, 34’ MSL. Terrain 384’ from DER, 600’ left of centerline, 34’ MSL. Pylon 5067’ from DER, 368’ right of centerline, 79’ AGL/107’ MSL. Pylon 5234’ from DER, 946’ right of centerline, 79’ AGL/103’ MSL. Rwys 17, pylon 4925’ from DER, 381’ left of centerline, 124’ AGL/142’ MSL. Terrain 472’ from DER, 584’ left of centerline, 30’ MSL. Terrain 63’ from DER, 517’ right of centerline, 32’ MSL. Terrain 17’ from DER, 500’ right of centerline, 33’ MSL. Rwys 31L, terrain 47 from DER, 512’ left of centerline, 29’ MSL. Terrain 50’ from DER, 500’ left of centerline, 30’ MSL. Terrain 173’ from DER, 546’ left of centerline, 30’ MSL. Terrain 181’ from DER, 500’ left of centerline, 31’ MSL. Terrain 684’ from DER, 652’ right of centerline, 30’ MSL. Rwys 31R, terrain 31 from DER, 500’ right of centerline, 33’ MSL. Terrain 63’ from DER, 517’ right of centerline, 33’ MSL. Terrain 294’ from DER, 500’ right of centerline, 33’ MSL. Terrain 380’ from DER, 602’ right of centerline, 33’ MSL. Rwys 35, terrain 46 from DER, 512’ left of centerline, 36’ MSL. Terrain 50’ from DER, 500’ left of centerline, 36’ MSL. Terrain 300’ from DER, 580’ left of centerline, 36’ MSL. Terrain 313’ from DER, 500’ left of centerline, 36’ MSL.
COTULLA, TX
COTULLA-LA SALLE COUNTY (COT)
TAKEOFF MINIMUMS AND (OBLASTE)
DEPARTURE PROCEDURES
AMDT 1 14261 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 3, trees beginning 4’ from DER, left and right of centerline, up to 20’ AGL/465’ MSL. Vehicles on unlit roadway, beginning 55’ from DER, 50’ left of centerline, up to 15’ AGL/482’ MSL. Trees beginning 142’ from DER, left and right of centerline, up to 20’ AGL/482’ MSL. Trees beginning 622’ from DER, left and right of centerline, up to 24’ AGL/480’ MSL. Pole 1002’ from DER, 548’ left of centerline, up to 16’ AGL/490’ MSL. Trees beginning 178’ from DER, 311’ right of centerline, up to 13’ AGL/485’ MSL. Trees beginning 178’ from DER, 311’ right of centerline, up to 16’ AGL/490’ MSL. Trees beginning 380’ from DER, 386’ right of centerline, up to 21’ AGL/493’ MSL.

DEL RIO, TX
DEL RIO MUNI (23R)
TAKEOFF MINIMUMS AND (OBLASTE)
DEPARTURE PROCEDURES
ORIG 08269 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 35, trees beginning at DER, 415’ right of centerline, up to 29’ AGL/129’ MSL. Trees beginning 149’ from DER, 523’ left of centerline, up to 40’ AGL/154’ MSL. Trees beginning at DER, 415’ right of centerline, up to 29’ AGL/129’ MSL. Trees beginning 467’1 from DER, 128’ right of centerline, up to 50’ AGL/839’ MSL.

DEVINE, TX
DEVINE MUNI (23R)
TAKEOFF MINIMUMS AND (OBLASTE)
DEPARTURE PROCEDURES
AMDT 1 11349 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 35, 300-1 or std. w/min. climb of 265’ per NM to 900.

EAGLE PASS, TX
MAVERICK COUNTY MEMORIAL INTL (5T9)
TAKEOFF MINIMUMS AND (OBLASTE)
DEPARTURE PROCEDURES
ORIG 08269 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 13, vehicle on road, 171’1 from DER, 393’ right of centerline, 15’ AGL/894’ MSL.

EDINBURG, TX
SOUTH TEXAS INTL AT EDINBURG (EGB)
TAKEOFF MINIMUMS AND (OBLASTE)
DEPARTURE PROCEDURES
ORIG 06271 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 13, 4’ from DER, left and right of centerline, up to 20’ AGL/465’ MSL. Vehicles on unlit roadway, beginning 55’ from DER, 50’ left of centerline, up to 15’ AGL/482’ MSL. Trees beginning 142’ from DER, left and right of centerline, up to 20’ AGL/482’ MSL. Trees beginning 622’ from DER, left and right of centerline, up to 24’ AGL/480’ MSL. Trees beginning 19’ from DER, left and right of centerline, up to 13’ AGL/485’ MSL. Trees beginning 178’ from DER, 311’ right of centerline, up to 13’ AGL/485’ MSL. Trees beginning 178’ from DER, 311’ right of centerline, up to 16’ AGL/490’ MSL. Trees beginning 380’ from DER, 386’ right of centerline, up to 21’ AGL/493’ MSL.

EL PASO, TX
EL PASO INTL (ELP)
TAKEOFF MINIMUMS AND (OBLASTE)
DEPARTURE PROCEDURES
AMDT 1 09127 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 32, 400-2¼ or std. w/min. climb of 249’ per NM to 600. Rw 35, std. w/min. climb of 250’ per NM to 600, or 500-3 w/min. climb of 242’ per NM to 600, or 900-2½ for climb in visual conditions.

FALFURRIAS, TX
BROOKS COUNTY (BKS)
TAKEOFF MINIMUMS AND (OBLASTE)
DEPARTURE PROCEDURES
AMDT 8 15232 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 35, for climb in visual conditions: cross Brooks County Airport at or above 900 MSL before proceeding on course.

FORT HOOD, TX
ROBERT GRAY AAF (GRK)
TAKEOFF MINIMUMS AND (OBLASTE)
DEPARTURE PROCEDURES
AMDT 1 14261 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 3, trees beginning 4’ from DER, left and right of centerline, up to 20’ AGL/465’ MSL. Vehicles on unlit roadway, beginning 55’ from DER, 50’ left of centerline, up to 15’ AGL/482’ MSL. Trees beginning 142’ from DER, left and right of centerline, up to 20’ AGL/482’ MSL. Trees beginning 622’ from DER, left and right of centerline, up to 24’ AGL/480’ MSL. Trees beginning 19’ from DER, left and right of centerline, up to 13’ AGL/485’ MSL. Trees beginning 178’ from DER, 311’ right of centerline, up to 16’ AGL/490’ MSL. Trees beginning 380’ from DER, 386’ right of centerline, up to 21’ AGL/493’ MSL. Trees beginning 380’ from DER, 386’ right of centerline, up to 21’ AGL/493’ MSL. Trees beginning 380’ from DER, 386’ right of centerline, up to 21’ AGL/493’ MSL.
TAKEOFF MINIMUMS (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

FORT STOCKTON, TX
FORT STOCKTON-PECOS COUNTY (FST)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 09239 (FAA)
TAKEOFF MINIMUMS: Rwys 7, 11, 16, 25, 29, 34, NA-
Environmental. Rw 21, 300-1 or std. w/ min. climb of
280’ per NM to 3600.
DEPARTURE PROCEDURE: Rw 21, climb heading
208° to 3600 before turning left.
TAKEOFF OBSTACLE NOTES: Rw 21, tree 899’ from
DER, 310’ right of centerline, 39’ AGL/3049’ MSL. Rw 21,
brush beginning 110’ from DER, 222’ right of centerline,
up to 20’ AGL/3139’ MSL. Terrain beginning 124’ from DER,
77’ right of centerline, up to 3173’ MSL.
Terrain beginning 56’ from DER, 132’ left of centerline,
up to 3111’ MSL. Bush 236’ from DER, 30’ left of centerline,
6’ AGL/3013’ MSL. Vehicle on road, 2017’ from DER,
973’ left of centerline, 17’ AGL/3066’ MSL. Rw 30, trees
beginning 64’ from DER, 354’ left of centerline, up to 6’ AGL/2995’ MSL.

FREDERICKSBURG, TX
GILLESPIE COUNTY (T82)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 19115 (FAA)
DEPARTURE PROCEDURE: Rw 14, climb heading
141° to 2400 before turning right. Rw 32, climb
heading 321° to 2400 before proceeding on course.
TAKEOFF OBSTACLE NOTES: Rw 14, trees
beginning 32’ from DER, 310’ right of centerline, up to
1685’ MSL. Pole 202’ from DER, 515’ left of centerline,
30’ AGL/1708’ MSL. Tree 325’ from DER, 298’ right of
centerline, 1688’ MSL. Trees beginning 336’ from
DER, 439’ left of centerline, up to 1715’ MSL. Trees
beginning 437’ from DER, 297’ left of centerline, up to
1718’ MSL. Trees beginning 517’ from DER, 323’ left
of centerline, up to 1723’ MSL. Tree 531’ from DER,
328’ right of centerline, 1694’ MSL. Rw 32, building,
trees beginning 9’ from DER, 22’ right of centerline, up
to 31’ AGL/1719’ MSL. Trees beginning 84’ from DER,
7’ left of centerline, up to 1726’ MSL. Tree 943’ from
DER, 490’ right of centerline, 1720’ MSL. Pole 1028’
from DER, 713’ right of centerline, 45’ AGL/1733’ MSL.
Trees, poles beginning 1038’ from DER, 113’ right of
centerline, up to 1735’ MSL. Trees beginning 1108’
from DER, 117’ left of centerline, up to 1731’ MSL.
Trees, poles beginning 1201’ from DER, 39’ right of
centerline, up to 1737’ MSL. Tree 1883’ from DER,
432’ right of centerline, 1742’ MSL.

GEORGETOWN, TX
GEORGETOWN MUNI (GTU)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 17229 (FAA)
TAKEOFF MINIMUMS: Rw 18, 200-1% or std. w/min.
climb of 250’ per NM to 1000.
TAKEOFF OBSTACLE NOTES: Rw 11, tree 11’ from
DER, 401’ right of centerline, 786’ MSL. Poles and trees
beginning 79’ from DER, 136’ right of centerline, up to 39’
AGL/796’ MSL. Building 183’ from DER, 477’ left of
centerline, 776’ MSL. Poles and buildings beginning 251’
from DER, 424’ left of centerline, up to 789’ MSL. Trees
beginning 489’ from DER, 226’ left of centerline, up to
791’ MSL. Transmission towers, catenary, and telephone
line beginning 2019’ from DER, 27’ left of centerline, up
to 97’ AGL/837’ MSL. Transmission tower and telephone
line beginning 2271’ from DER, 900’ right of centerline,
up to 826’ MSL. Tower 536’ from DER, 515’ right of
centerline, 179’ AGL/894’ MSL. Rw 18, REIL, vehicles
on road, and tree beginning 30’ from DER, 124’ left of
centerline, up to 784’ MSL. Tree 148’ from DER, 465’ left
of centerline, 33’ AGL/787’ MSL. Trees beginning 175’
from DER, 444’ right of centerline, up to 779’ MSL.
Obstruction light on pole, poles, and trees beginning 300’
from DER, 55’ left of centerline, up to 792’ MSL.
Obstruction light on pole, poles, and trees beginning 351’
from DER, 19’ right of centerline, up to 792’ MSL.
Transmission tower 3137’ from DER, 1036’ left of
centerline, 90’ AGL/835’ MSL. Antenna on water tower
1 NM from DER, 1158’ right of centerline, 163’ AGL/832’
MSL. Rw 29, bushes beginning 10’ from DER, 117’ left
of centerline, up to 792’ MSL. Terrain 15’ from DER, 91’
right of centerline, 790’ MSL. Terrain 15’ from DER, 191’
right of centerline, 792’ MSL. Trees beginning 89’ from
DER, 345’ left of centerline, up to 806’ MSL. Bush and
tree beginning 103’ from DER, 351’ right of centerline, up
to 23’ AGL/819’ MSL. Tree 205’ from DER, 403’ left of
centerline, 811’ MSL. Tree 260’ from DER, 562’ right of
centerline, 824’ MSL. Trees beginning 296’ from DER,
291’ left of centerline, up to 819’ MSL. Trees beginning
331’ from DER, 162’ right of centerline, up to 828’ MSL.
Trees beginning 544’ from DER, 22’ right of centerline,
up to 833’ MSL. Trees beginning 549’ from DER, 78’ left
of centerline, up to 821’ MSL. Pole 766’ from DER, 524’
right of centerline, 837’ MSL. Poles and trees beginning
787’ from DER, 48’ left of centerline, up to 826’ MSL.
CON’T
GEORGETOWN, TX (CON’T)

GEORGETOWN MUNI (GTU) (CON’T)

Rwy 29 (CON’T), poles and trees beginning 800’ from DER, 56’ right of centerline, up to 840’ MSL. Tree 1902’ from DER, 923’ right of centerline, 841’ MSL. Trees beginning 1958’ from DER, 583’ right of centerline, up to 844’ MSL. Rwy 36, building 70’ from DER, 513’ right of centerline, 785’ MSL. Antenna 104’ from DER, 492’ right of centerline, 810’ MSL. Terrain 115’ from DER, 345’ left of centerline, 789’ MSL. Trees beginning 143’ from DER, 378’ left of centerline, up to 18’ AGL/810’ MSL. Pole 269’ from DER, 565’ left of centerline, 35’ AGL/828’ MSL. Trees beginning 284’ from DER, 424’ right of centerline, up to 818’ MSL. Tree 322’ from DER, 360’ left of centerline, 831’ MSL. Pole and trees beginning 392’ from DER, 301’ left of centerline, up to 837’ MSL. Tower and trees beginning 510’ from DER, 429’ right of centerline, up to 45’ AGL/823’ MSL.

HAMILTON, TX

HAMILTON MUNI (MNZ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 09351 (FAA)

TAKEOFF OBSTACLE NOTES: Rwy 18, tree 689’ from DER, 211’ left of centerline, 40’ AGL/1346’ MSL. Vehicle on North-South road 849’ from DER, on extended centerline, 15’ AGL/1321’ MSL. Rwy 36, trees beginning 621’ from DER, 186’ left of centerline, 40’ AGL/1359’ MSL. Trees 879’ from DER, 87’ right of centerline, 40’ AGL/1359’ MSL.

HARLINGEN, TX

VALLEY INTL (HRL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 19227 (FAA)

TAKEOFF OBSTACLE NOTES: Rwy 13, sign 29’ from DER, 251’ left of centerline, 6’ AGL/39’ MSL. Pole 1117’ from DER, 550’ left of centerline, 34’ AGL/67’ MSL. Rwy 17L, NAVAID 9’ from DER, on centerline, 3’ AGL/37’ MSL. Vehicle on road 410’ from DER, 519’ left of centerline, 50’ MSL. Vehicle on road 415’ from DER, 1’ right of centerline, 51’ MSL. Rwy 17R, fence 23’ from DER, 498’ right of centerline, 9’ AGL/41’ MSL. Rwy 31, NAVAID 52’ from DER, 199’ left of centerline, 4’ AGL/37’ MSL. Pole 752’ from DER, 546’ right of centerline, up to 34’ AGL/66’ MSL. Tree 981’ from DER, 461’ left of centerline, 69’ MSL. Tree 1655’ from DER, 517’ left of centerline, 72’ MSL. Rwy 35L, sign 23’ from DER, 250’ left of centerline, 3’ AGL/36’ MSL. Rwy 35R, NAVAID 40’ from DER, 149’ left of centerline, 3’ AGL/36’ MSL. NAVAID 40’ from DER, 148’ right of centerline, 3’ AGL/36’ MSL. NAVAID 40’ from DER, 202’ left of centerline, 4’ AGL/37’ MSL.

HEBBRONVILLE, TX

JIM HOGG COUNTY (HBV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 10210 (FAA)

TAKEOFF OBSTACLE NOTES: Rwy 13, trees beginning 7’ from DER, 59’ left of centerline, up to 25’ AGL/694’ MSL. Rwy 31, trees beginning 112’ from DER, 274’ right of centerline to 438’ left of centerline, up to 12’ AGL/681’ MSL. Pole 801’ from DER, 374’ right of centerline, up to 26’ AGL/685’ MSL. NDB 275’ from DER, 495’ left of centerline, up to 33’ AGL/692’ MSL. Vehicle on road 399’ from DER, left and right of centerline, up to 15’ AGL/674’ MSL.

HONDO, TX

SOUTH TEXAS RGNL AT HONDO (HDO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 11209 (FAA)

TAKEOFF MINIMUMS: Rwy 4, 22, NA-Environmental. TAKEOFF OBSTACLE NOTES: Rwy 8, trees 407’ from DER, 243’ left of centerline, 30’ AGL/959’ MSL. Rwy 17L, vehicles on road 488’ from DER, 131’ right of centerline, 15’ AGL/926’ MSL. Rwy 17R, sand storage domes beginning 3653’ from DER, 838’ right of centerline, up to 115’ AGL/1023’ MSL. Rwy 35R, vehicles on road 161’ from DER, 172’ left of centerline, 15’ AGL/943’ MSL. Multiple trees beginning 636’ from DER, 354’ right of centerline, up to 26’ AGL/955’ MSL. Vehicles on road beginning 490’ from DER, 122’ right of centerline, 15’ AGL/943’ MSL. Rwy 26, trees 1022’ from DER, 241’ right of centerline, 30’ AGL/959’ MSL. Rwy 13, trees 726’ from DER, 250’ left of centerline, 30’ AGL/939’ MSL.

HOOD AAF (KHLR)

FORT HOOD (KILLEEN), TX

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2, 09351

TAKEOFF MINIMUMS: Rwy 16, 34 Standard* * For Copter use only.

JUNCTION, TX

KIMBLE COUNTY (JCT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 11125 (FAA)

TAKEOFF MINIMUMS: Rwy 8, 26, NA - Environmental. Rwy 17, std w/min. climb of 340’ per NM to 2300 or 1300-3 for climb in visual conditions. Rwy 35, std. w/min. climb of 565’ per NM to 2200 or 400-3 with minimum climb of 230’ per NM to 2500, or 1300-3 for climb in visual conditions. DEPARTURE PROCEDURE: Rwy 17, climb heading 172° to 2800 before proceeding on course, for climb in visual conditions cross Kimble County Airport at or above 2900 before proceeding on course. Rwy 35, for climb in visual conditions cross Kimble County Airport at or above 2800 before proceeding on course.

TAKEOFF OBSTACLE NOTES: Rwy 17, trees beginning abreast DER, 297’ right of centerline, up to 50’ AGL/1749’ MSL. Power lines beginning 229’ from DER, 370’ right of centerline, up to 75’ AGL/1744’ MSL. Vehicles on road beginning 390’ from DER, left and right of centerline, up to 17’ AGL/1716’ MSL. Trees beginning 1548’ from DER, left and right of centerline, up to 50’ AGL/2049’ MSL. Radio towers beginning 4568’ from DER, 736’ left of centerline, up to 169’ AGL/1854’ MSL. Rwy 35, power lines beginning abreast DER, 545’ left of centerline, up to 75’ AGL/1854’ MSL. Power lines abreast DER, 561’ right of centerline, up to 75’ AGL/1854’ MSL. Vehicles on road beginning 1121’ from DER, left and right of centerline, up to 15’ AGL/1794’ MSL. Trees beginning 1254’ from DER, left and right of centerline, up to 50’ AGL/2129’ MSL.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)
KENEDY, TX
KENEDY RGNL (2R9)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2A 19227 (FAA)
TAKEOFF MINIMUMS: Rwys 16, 300-1 1/2 or std. w/min. climb of 310' per NM to 6000. Rwys 34, 400-2 1/2 or std. w/min. climb of 675' per NM to 600.
DEPARTURE PROCEDURE: Rwys 34, climb heading 344° to 800 before turning left.
TAKEOFF OBSTACLE NOTES: Rwys 16, fence at DER, 293' left of centerline, 8' AGL/279' MSL. Fencing beginning 11' from DER, 268' right of centerline, up to 100' AGL/379' MSL. Poles beginning 965' from DER, 352' left of centerline, up to 80' AGL/364' MSL. Tree 1771' from DER, 937' right of centerline, 100' AGL/389' MSL. Tree 2752' from DER, 993' right of centerline, 100' AGL/399' MSL. Tree 3234' from DER, 1137' left of centerline, 100' AGL/409' MSL. Tree 3408' from DER, 982' right of centerline, 100' AGL/419' MSL. Tree 4050' from DER, 808' right of centerline, 100' AGL/429' MSL. Tree 4523' from DER, 348' right of centerline, 100' AGL/439' MSL. Tree 4854' from DER, 200' right of centerline, 100' AGL/449' MSL. Tree 5091' from DER, 147' right of centerline, 100' AGL/459' MSL. Trees beginning 5351' from DER, 18' right of centerline, up to 100' AGL/469' MSL. Tree 5684' from DER, 983' right of centerline, 100' AGL/479' MSL. Tree 1 NM from DER, 1953' right of centerline, 100' AGL/489' MSL. Tree 1.1 NM from DER, 2105' right of centerline, 100' AGL/499' MSL. Tree 1.5 NM from DER, 1603' right of centerline, 100' AGL/507' MSL. Rwys 34, tree 51' from DER, 180' left of centerline, 100' AGL/399' MSL. Fence 169' from DER, crossing extended runway centerline, 8' AGL/295' MSL. Tower 1031' from DER, 2808' left of centerline, 238' AGL/678' MSL. Tree 1457' from DER, 761' left of centerline, 100' AGL/419' MSL. Tree 1512' from DER, 8' right of centerline, 100' AGL/409' MSL. Tree 1615' from DER, 859' left of centerline, 100' AGL/429' MSL. Tree 1779' from DER, 861' left of centerline, 100' AGL/439' MSL. Tree 1902' from DER, 847' right of centerline, 100' AGL/449' MSL. Tree 2521' from DER, 950' right of centerline, 100' AGL/429' MSL. Tree 3584' from DER, 1437' right of centerline, 100' AGL/459' MSL. Tree 4395' from DER, 107' left of centerline, 100' AGL/469' MSL. Tree 4834' from DER, 178' left of centerline, 100' AGL/479' MSL. Tree 5227' from DER, 352' left of centerline, 100' AGL/459' MSL. Tree 5270' from DER, 153' left of centerline, 100' AGL/499' MSL. Trees beginning 1 NM from DER, 24' left of centerline, up to 100' AGL/519' MSL. Trees beginning 1.1 NM from DER, 4' right of centerline, up to 100' AGL/529' MSL. Tower, trees beginning 1.4 NM from DER, 86' left of centerline, up to 238' AGL/628' MSL.

KERRVILLE, TX
KERRVILLE MUNI /LOUIS SCHREINER FIELD (ERV)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2  19003 (FAA)
TAKEOFF MINIMUMS: Rwys 3, 500-3 w/min. climb of 390' per NM to 2600, or std. w/min. climb of 455' per NM to 2400 or 1300-3 for VCOA. Rwys 30, std. w/min. climb of 215' per NM to 2300 or 1300-3 for VCOA. Rwys 3, 30, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Kerrville Muni/Louis Schreiner Field at or above 2800 before proceeding on course.
TAKEOFF OBSTACLE NOTES: Rwys 3, tree 23' from DER, 468' left of centerline, 41' AGL/1631' MSL. Terrain 25' from DER, 401' right of centerline, 1635' MSL. Terrain 36' from DER, 505' right of centerline, 1647' MSL. Vehicles on road, terrain beginning 45' from DER, 310' right of centerline, up to 1649' MSL. Trees beginning 239' from DER, 445' left of centerline, 160' AGL/1640' MSL. Vehicle on road, terrain beginning 296' from DER, 352' right of centerline, up to 1650' MSL. Trees beginning 436' from DER, 344' left of centerline, up to 66' AGL/1664' MSL. Vehicles on road, terrain beginning 496' from DER, 311' right of centerline, up to 1652' MSL. Vehicles on road, terrain beginning 853' from DER, 117' right of centerline, up to 38' AGL/1673' MSL. Trees beginning 895' from DER, 46' right of centerline, up to 31' AGL/1675' MSL. Trees beginning 985' from DER, 96' right of centerline, up to 26' AGL/1678' MSL. Trees beginning 1030' from DER, 198' right of centerline, up to 41' AGL/1684' MSL. Poles, vehicles on road, transmission line, trees beginning 1176' from DER, 11' right of centerline, up to 55' AGL/1715' MSL. Pole 1434' from DER, 418' left of centerline, 58' AGL/1672' MSL. Transmission line, pole beginning 1440' from DER, 414' left of centerline, up to 59' AGL/1674' MSL. Pole 1523' from DER, 772' left of centerline, 63' AGL/1698' MSL. Transmission line, trees, windmill, pole, vehicle on road beginning 1525' from DER, 28' left of centerline, up to 64' AGL/1705' MSL. Trees, vehicles on road, fence beginning 2019' from DER, 37' right of centerline, up to 33' AGL/1742' MSL. Trees, terrain beginning 2581' from DER, 576' right of centerline, up to 1743' MSL. Trees beginning 2717' from DER, 540' left of centerline, up to 29' AGL/1708' MSL. Trees, fence beginning 2978' from DER, 804' left of centerline, up to 37' AGL/1733' MSL. Trees beginning 3253' from DER, 920' left of centerline, up to 30' AGL/1738' MSL. Trees, pole beginning 3636' from DER, 1190' left of centerline, up to 33' AGL/1742' MSL. Tree 3905' from DER, 1490' right of centerline, 30' AGL/1751' MSL. Trees beginning 4089' from DER, 920' right of centerline, up to 16' AGL/1753' MSL. Trees beginning 4108' from DER, 1199' right of centerline, up to 27' AGL/1773' MSL. Tree 4291' from DER, 1344' right of centerline, 23' AGL/1776' MSL. Trees beginning 4312' from DER, 1120' right of centerline, up to 23' AGL/1796' MSL. Fence, tree beginning on ground, 4446' from DER, 1207' right of centerline, up to 4' AGL/1824' MSL. Fence, tree beginning 4504' from DER, 1136' right of centerline, up to 6' AGL/1832' MSL. Terrain, fence, tree beginning 4610' from DER, 1475' right of centerline, up to 1869' MSL. Trees, fence, terrain beginning 4656' from DER, 347' right of centerline, up to 14' AGL/1879' MSL. Poles beginning 4892' from DER, 1415' left of centerline, up to 40' AGL/1753' MSL. Pole, trees beginning 5066' from DER, 1275' left of centerline, up to 39' AGL/1758' MSL.
KERRVILLE, TX (CON’T)

Rwy 3 (CON’T), pole, tree beginning 5204’ from DER, 1373’ left of centerline, up to 37’ AGL/1760’ MSL. Tree 5259’ from DER, 1498’ left of centerline, up to 36’ AGL/1764’ MSL. Trees beginning 5329’ from DER, 1203’ left of centerline, up to 41’ AGL/1769’ MSL. Tree 5365’ from DER, 1718’ left of centerline, 33’ AGL/1772’ MSL. Trees, vehicle on road, poles beginning 5366’ from DER, 1159’ left of centerline, up to 32’ AGL/1773’ MSL. Tree 5595’ from DER, 1424’ left of centerline, up to 34’ AGL/1775’ MSL. Pole 5579’ from DER, 1525’ left of centerline, 28’ AGL/1778’ MSL. Pole beginning 5639’ from DER, 1125’ left of centerline, up to 27’ AGL/1800’ MSL. Pole, terrain, trees beginning 5667’ from DER, 1229’ left of centerline, up to 1757’ AGL/1800’ MSL. Tree 5885’ from DER, 1970’ left of centerline, 28’ AGL/1850’ MSL. Trees, terrain beginning 5931’ from DER, 1356’ left of centerline, up to 26’ AGL/1874’ MSL. Tree 6068’ from DER, 1968’ left of centerline, 21’ AGL/1890’ MSL. Trees beginning 1.8 NM from DER, 1349’ right of centerline, up to 1924’ MSL. Vehicle on road, tree beginning 1 NM from DER, 914’ right of centerline, up to 1902’ MSL. Vehicles on road beginning 1 NM from DER, 524’ right of centerline, up to 1903’ MSL. Trees beginning 1 NM from DER, 991’ right of centerline, up to 22’ AGL/1921’ MSL. Trees, vehicle on road beginning 1.1 NM from DER, 735’ right of centerline, up to 29’ AGL/1923’ MSL. Tree, terrain beginning 1.1 NM from DER, 524’ right of centerline, up to 1927’ MSL. Trees, vehicle on road, terrain, poles beginning 1.1 NM from DER, 416’ right of centerline, up to 36’ AGL/1929’ MSL. Building, trees, vehicle on road beginning 1.2 NM from DER, 1213’ right of centerline, up to 32’ AGL/1931’ MSL. Trees, vehicles on road, poles, building, terrain, tank beginning 1.2 NM from DER, and on right of centerline, up to 35’ AGL/1934’ MSL. Fence, tree beginning 1.3 NM from DER, 1578’ left of centerline, up to 6’ AGL/1925’ MSL. Building, 1.3 NM from DER, 2597’ left of centerline, 14’ AGL/1934’ MSL. Tree 1.3 NM from DER, 2558’ left of centerline, 23’ AGL/1943’ MSL. Trees, building, poles, trees on road beginning 1.3 NM from DER, 1543’ left of centerline, up to 41’ AGL/1962’ MSL. Buildings, poles, vehicles on road, trees, fence, terrain beginning 1.3 NM from DER, 18’ left of centerline, up to 32’ AGL/1963’ MSL. Trees, vehicles, poles on road beginning 1.4 NM from DER, 160’ right of centerline, up to 31’ AGL/1941’ MSL. Trees, poles, vehicles on road, fence beginning 1.4 NM from DER, 233’ right of centerline, up to 25’ AGL/1947’ MSL. Trees, poles, vehicles on road beginning 1.5 NM from DER, 196’ right of centerline, up to 25’ AGL/1950’ MSL. Trees, poles, vehicles on road, fence, terrain beginning 1.5 NM from DER, 179’ right of centerline, up to 44’ AGL/1961’ MSL. Trees, vehicles on road, terrain beginning 1.6 NM from DER, 32’ left of centerline, up to 25’ AGL/1967’ MSL. Trees, vehicles on road, pole beginning 1.7 NM from DER, 133’ right of centerline, up to 28’ AGL/1962’ MSL. Vehicle on road, tree beginning 1.7 NM from DER, 1457’ right of centerline, up to 1963’ MSL. Trees, vehicles on road beginning 1.7 NM from DER, 1588’ left of centerline, up to 18’ AGL/1968’ MSL. Trees, fence, vehicles on road beginning 1.7 NM from DER, 15’ right of centerline, up to 22’ AGL/1978’ MSL. Poles, trees, vehicles on road, terrain, building beginning 1.7 NM from DER, 196’ right of centerline, up to 36’ AGL/1982’ MSL. Vehicles on road, vehicle beginning 1.7 NM from DER, 2149’ left of centerline, up to 1969’ MSL. Poles, trees, vehicles on road beginning 1.7 NM from DER, 906’ left of centerline, up to 39’ AGL/1976’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

KILLEEN, TX
SKYLARK FIELD (ILE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 09015 (FAA)
DEPARTURE PROCEDURE: Rwy 19, climb heading 190° to 1900 before turning east.
TAKEOFF OBSTACLE NOTES: Rwy 1, multiple poles beginning 317' from DER, 384' left of centerline, up to 27' AGL/868' MSL. Tree, 973' from DER, 100' left of centerline, 28' AGL/876' MSL. Building, 488' from DER, 60' right of centerline, 13' AGL/854' MSL. Antenna, 351' from DER, 277' right of centerline, 11' AGL/852' MSL. Rwy 19, pole, 288' from DER, 588' right of centerline, 32' AGL/880' MSL. Building, 102' from DER, 411' right of centerline, 8' AGL/856' MSL. Vehicle on road, 232' from DER, 499' right of centerline, 15' AGL/867' MSL. Pole, 256' from DER, 497' left of centerline, 32' AGL/873' MSL. Building, 276' from DER, 342' left of centerline, 11' AGL/859' MSL. Building, 298' from DER, 83' left of centerline, 9' AGL/857' MSL.

LAGO VISTA, TX
LAGO VISTA TX-RUSTY ALLEN (RYW)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 17229 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 15, building 4' from DER, 157' right of centerline, 25' AGL/1225' MSL. Building and trees beginning 18' from DER, 248' left of centerline, up to 1232' MSL. Rwy 33, trees beginning 14' from DER, 158' right of centerline, up to 1258' MSL. Trees beginning 44' from DER, 144' left of centerline, up to 1257' MSL. Trees beginning 173' from DER, 315' left of centerline, up to 1262' MSL. Trees beginning 173' from DER, 235' right of centerline, up to 1259' MSL. Trees beginning 494' from DER, 224' right of centerline, up to 1269' MSL. Trees beginning 624' from DER, 274' left of centerline, up to 1270' MSL. Trees beginning 743' from DER, 159' left of centerline, up to 1273' MSL. Tree 1430' from DER, 122' right of centerline, 1270' MSL. Tree 1612' from DER, 132' left of centerline, 1274' MSL.

LAKESVILLE, TX
KLEBERG COUNTY (IKG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 10210 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 13, trees beginning 528' from DER, 515' right of centerline, up to 35' AGL/154' MSL. Trees beginning 775' from DER, 554' left of centerline, up to 35' AGL/159' MSL. Rwy 31, trees beginning 184' from DER, 358' right of centerline, up to 28' AGL/153' MSL.

LAMPIASAS, TX
LAMPIASAS (LZZ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 09351 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 16, building 39' from DER, 374' left of centerline, 20' AGL/1189' MSL. Trees beginning 796' from DER, 217' right of centerline, up to 30' AGL/1189' MSL. Rwy 34, trees beginning 657' from DER, 147' left of centerline, up to 30' AGL/1249' MSL.

LAREDO, TX
LAREDO INTL (LRD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4B 18312 (FAA)
DEPARTURE PROCEDURE: Rwy 14, climb heading 142° to 1000 before turning right. Rwy 18L, climb heading 163° to 1200 before turning right. Rwy 18R, climb heading 163° to 1300 before turning right. Rwy 32, climb heading 322° to 1200 before turning left. Rwys 36L, 36R, climb heading 358° to 1000 before turning left. TAKOBEF OBSTACLE NOTES: Rwy 14, trees beginning 135' from DER, 298' left of centerline, up to 59' AGL/519' MSL. Sign 226' from DER, 444' left of centerline, 14' AGL/474' MSL. Rwy 18L, terrain beginning 48' from DER, 333' right of centerline, up to 478' MSL. Rwy 18R, terrain beginning 4' from DER, 219' right of centerline, up to 489' MSL. Light poles beginning 894' from DER, 344' right of centerline, up to 41' AGL/511' MSL. Rwy 32, aircraft on taxiway beginning 50' from DER, 367' left of centerline, up to 75' AGL/584' MSL. Trees beginning 768' from DER, 584' left of centerline, up to 59' AGL/559' MSL. Trees beginning 88' from DER, 275' right of centerline, up to 59' AGL/559' MSL. Rwy 36L, MALS R 5', DER, 893' right of centerline, 5' AGL/505' MSL. NAVAID 10' from DER, on centerline, 5' AGL/505' MSL. Antenna on building 61' from DER, 104' left of centerline, 30' AGL/520' MSL. Terrain beginning 19' from DER, 191' left of centerline, up to 500' MSL. Terrain beginning 176' from DER, 489' right of centerline, up to 512' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

LAUGHLIN AFB (KDLF),
DEL RIO, TX
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
12348
TAKEOFF OBSTACLE NOTES: Rwy 13C, Taxing aircraft 14' AGL/1079' MSL, 197' from DER, 222' right of centerline. Rwy 13L, Taxing aircraft 14' AGL/1076' MSL, 9' from DER, 204' right of centerline. Rwy 13R, Taxing aircraft 38' AGL/1108' MSL, 1159' from DER, 175' left of centerline. Taxing aircraft 14' AGL/1090' MSL, 14' from DER, 202' left of centerline. Taxing aircraft 14' AGL/1090' MSL, 65' from DER, 301' left of centerline. Taxing aircraft 14' AGL/1093' MSL, 524' from DER, 605' right of centerline. Taxing aircraft 14' AGL/1093' MSL, 1163' from DER, 599' right of centerline. Rwy 31C, Vehicular traffic 10' AGL/1092' MSL, 18' from DER, 466' right of centerline. Rwy 31L, Taxing aircraft 14' AGL/1091' MSL, 196' from DER, 174' right of centerline. Vehicular traffic 10' AGL/1088' MSL, 861' from DER, 549' left of centerline. Taxing aircraft 14' AGL/1094' MSL, 329' from DER, 329' right of centerline. Taxing aircraft 14' AGL/1089' MSL, 177' from DER, 170' left of centerline. Pole 8' AGL/1084' MSL, 228' from DER, 567' left of centerline. Pole 8' AGL/1083' MSL, 397' from DER, 625' left of centerline. Pole 8' AGL/1084' MSL, 344' from DER, 682' left of centerline. Rwy 31R, Terrain 1082' MSL, 0' from DER, 500' left of centerline. Terrain 1083' MSL, 141' from DER, 516' left of centerline. Terrain 1083' MSL, 173' from DER, 546' left of centerline. Vehicular traffic 10' AGL/1092' MSL, 609' from DER, 534' left of centerline. Terrain 1085' MSL, 115' from DER, 521' right of centerline. Terrain 1083' MSL, 72' from DER, 449' right of centerline. Taxing aircraft 14' AGL/1090' MSL, 6' from DER, 174' left of centerline. Railroad 23' AGL/1102' MSL, 1423' from DER, 469' right of centerline. Windsock 26' AGL/1101' MSL, 19' from DER, 496' left of centerline. Railroad 23' AGL/1102' MSL, 1239' from DER, 889' left of centerline.

LLANO, TX
LLANO MUNI (AQO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 09351 (FAA)
TAKEOFF MINIMUMS: Rwys 13, 31, NA-Environmental.
DEPARTURE PROCEDURE: Rw 35, climb heading 354° to 1900 before proceeding on course.
TAKEOFF OBSTACLE NOTES: Rw 17, tree 11' from DER, 364' left of centerline, 25' AGL/1144' MSL. Trees 811' from DER, 242' left of centerline, 25' AGL/1124' MSL. Rw 35, hangar 209' from DER, 497' right of centerline, 30' AGL/1149' MSL. Tree 485' from DER, 265' right of centerline, 25' AGL/1144' MSL. Vehicles on North-South road, 270' left of centerline, 15' AGL/1114' MSL. Vehicles on road 390' from DER, crosses centerline East-West, 15' AGL/1134' MSL.

LOCKHART, TX
LOCKHART MUNI (50R)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 11237 (FAA)
TAKEOFF MINIMUMS: Rw 36, 400-3 or std. w/min. climb of 275' per NM to 1200. DEPARTURE PROCEDURE: Rw 36, climb heading 355° to 1200 before turning.
TAKEOFF OBSTACLE NOTES: Rw 18, trees beginning 47' from DER, 267' left of centerline, up to 65' AGL/555' MSL. Trees beginning 245' from DER, 13' right of centerline, up to 42' AGL/541' MSL. Rw 36, bush 51' from DER, 305' right of centerline, 8' AGL/568' MSL. Pole 1298' from DER, 561' right of centerline, 38' AGL/568' MSL. Tower 2.2 NM from DER, 2536' right of centerline, 378' AGL/918' MSL.

MARFA, TX
MARFA MUNI (MRF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 11013 (FAA)
TAKEOFF MINIMUMS: CAUTION: Unmarked balloon and cable to 14000' MSL in R-6318. Rw 8, 26, NA-Environmental.
DEPARTURE PROCEDURE: Rw 4, climbing right turn direct MRF VOR/DME, thence... Rw 13, climb direct MRF VOR/DME, thence... Rw 22, 31, climbing left turn direct MRF VOR/DME, thence... All aircraft climb in MRF holding pattern (Hold SE, left turns, 313° inbound) to cross MRF VOR/DME at or above MEA for direction of flight.
TAKEOFF OBSTACLE NOTES: Rw 4, trees beginning 899' from DER, 310' left of centerline, up to 50' AGL/4929' MSL. Vehicles on road beginning 176' from DER, 175' left of centerline, up to 15' AGL/4874' MSL. Rw 13, vehicles on road beginning 544' from DER, left and right of centerline, up to 15' AGL/4854' MSL. Rw 22, building and greenhouses beginning 28' from DER, 493' left of centerline, up to 35' AGL/4864' MSL.

MASON, TX
MASON COUNTY (T92)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 17229 (FAA)
TAKEOFF MINIMUMS: Rw 36, 300-1 or std. w/ min. climb of 440' per NM to 1800. DEPARTURE PROCEDURE: Rw 18, climb heading 176° to 2100' before turning right.
TAKEOFF OBSTACLE NOTES: Rw 18, trees beginning 469' from DER, 87' left of centerline, up to 35' AGL/1555' MSL. Rw 36, trees beginning 379' from DER, left and right of centerline, up to 35' AGL/1538' MSL. T-L tower 3061' from DER, 1185' left of centerline, 95' AGL/1628' MSL. T-L towers beginning 3625' from DER, 193' left of centerline, up to 85' AGL/1641' MSL. T-L towers beginning 4435' from DER, 303' right of centerline, up to 90' AGL/1667' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

MC ALLEN, TX
MC ALLEN MILLER INTL (MFE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 15344 (FAA)
TAKEOFF MINIMUMS: Rwy 36, 300-1%, or std. w/min. climb of 296' per NM to 500'.
TAKEOFF-obstacle NOTES: Rwy 14, trees beginning 792' from DER, 593' left of centerline, up to 44' AGL/139' MSL. Rwy 32, trees and poles beginning 709' from DER, 362' left of centerline, up to 52' AGL/157' MSL. Tree 1701' from DER, 627' right of centerline, 42' AGL/142' MSL. Rwy 36, pole 581' from DER, on centerline, 19' AGL/122' MSL. Tower 198' from DER, 335' left of centerline, 38' AGL/140' MSL. Buildings and trees beginning 652' from DER, 36' left of centerline, up to 50' AGL/155' MSL. Towers, poles and buildings beginning 635' from DER, 25' right of centerline, up to 62' AGL/166' MSL. Buildings 2016' from DER, 860' right of centerline, 89' AGL/197' MSL. Buildings 1.29 NM from DER, 243' right of centerline, 263' AGL/394' MSL.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

TAKEOFF-obstacle NOTES: Rwy 7, vehicles on road and tree beginning 87' from DER, 360' left of centerline, up to 2803' MSL. Vegetation 218' from DER, 441' right of centerline, 2797' MSL. Poles beginning 316' from DER, 443' left of centerline, up to 50' AGL/2840' MSL. Poles beginning 1601' from DER, 252' left of centerline, up to 52' AGL/2833' MSL. Pole 1868' from DER, 377' left of centerline, 52' AGL/2849' MSL. Pole 2136' from DER, 343' left of centerline, 52' AGL/2855' MSL. Pole 2403' from DER, 309' left of centerline, up to 52' AGL/2859' MSL. Poles beginning 2688' from DER, 256' left of centerline, up to 52' AGL/2861' MSL. Rwy 16, vegetation 37' from DER, 490' right of centerline, 2803' MSL. Pole 196' from DER, 496' right of centerline, 33' AGL/2827' MSL. Pole 318' from DER, 449' right of centerline, 34' AGL/2828' MSL. Poles and trees beginning 613' from DER, 296' right of centerline, up to 42' AGL/2834' MSL. Pole 826' from DER, 454' left of centerline, 32' AGL/2822' MSL. Tree 856' from DER, 227' left of centerline, 2829' MSL. Trees beginning 1098' from DER, 291' right of centerline, up to 2842' MSL. Poles beginning 1269' from DER, 664' left of centerline, up to 51' AGL/2839' MSL. Tower 2 NM from DER, 3181' left of centerline, 354' AGL/3136' MSL. Building 2 NM from DER, 3680' left of centerline, 354' AGL/3135' MSL. Rwy 25, pole 104' from DER, 519' right of centerline, 67' AGL/2870' MSL. Poles beginning 373' from DER, 316' right of centerline, up to 69' AGL/2873' MSL. Tree and sign beginning 642' from DER, 205' left of centerline, up to 2840' MSL. Poles, lighting, and tree beginning 644' from DER, 12' right of centerline, up to 71' AGL/2876' MSL. Tree, pole, and lighting beginning 881' from DER, 76' left of centerline, up to 2842' MSL. Building and trees beginning 866' from DER, 38' left of centerline, up to 40' AGL/2851' MSL.

TAKEOFF OBSTACLE NOTES: Rwy 4, trees beginning 2' from DER, 34' right of centerline, up to 40' AGL/2933' MSL. Trees, poles, and signs beginning 1296' from DER, 457' left of centerline, up to 40' AGL/2931' MSL. Rwy 16L, signs and poles beginning 94' from DER, 20' left of centerline, up to 30' AGL/2877' MSL. Railroad beginning 530' from DER, 17' left of centerline, 23' AGL/2869' MSL. Vehicles on road beginning 301' from DER, 268' left of centerline, 17' AGL/2862' MSL. Rwy 16R, pole 1794' from DER, 975' right of centerline, 55' AGL/2906' MSL. Rwy 22, tower, poles, lights, and antenna beginning 111' from DER, 66' right of centerline, up to 102' AGL/2986' MSL. Hangars 1112' from DER, 600' right of centerline, 55' AGL/2906' MSL. Tower, poles, and sign beginning 83' from DER, 62' left of centerline, up to 120' AGL/2971' MSL. Rwy 34L, drilling rigs beginning 201' from DER, 178' right of centerline, up to 165' AGL/3037' MSL. Poles beginning 3228' from DER, 769' left of centerline, 165' AGL/3056' MSL. Rwy 34R, vehicles on road beginning 256' from DER, 10' right of centerline, up to 17' AGL/2881' MSL. Trees and bushes beginning 171' from DER, 80' right of centerline, up to 40' AGL/2878' MSL. Poles and fence beginning 26' from DER, 109' right of centerline, up to 38' AGL/2903' MSL. Fence beginning 83' from DER, 271' left of centerline, 8' AGL/2872' MSL. Windmill, poles and trees beginning 1239' from DER, 116' left of centerline, up to 66' AGL/2913' MSL. Drilling rig 5540' from DER, 267' left of centerline, 165' AG/3025' MSL.
MONAHANS, TX
ROY HURD MEMORIAL (E01)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 12152 (FAA)
TAKEOFF MINIMUMS: RwY 1, 400-1/2 or std. w/min. climb of 434' per NM to 3100. RwY 12, 300-1 or std. w/min. climb of 552' per NM to 2900.
TAKEOFF OBSTACLE NOTES: RwY 1, vehicles on road, trees, and power line and poles beginning 185' from DER, left and right of centerline, up to 40' AGL/2649' MSL. Tower 1.2 NM from DER, 211' right of centerline, 303' AGL/2928' MSL. RwY 12, bush 75' from DER, 479' left of centerline, 12' AGL/2617' MSL. Trees and a pole beginning 778' from DER, 23' right of centerline, up to 31' AGL/2641' MSL. Trees beginning 1041' from DER, 29' left of centerline, up to 42' AGL/2624' MSL. Tower 2283' from DER, 910' left of centerline, 130' AGL/2744' MSL. RwY 19, vehicle on road 215' from DER, 457' right of centerline, 15' AGL/2624' MSL. RwY 30, fence, railroad, poles, and trees beginning 56' from DER, 166' right of centerline, up to 44' AGL/2649' MSL. Vehicle on road, light pole, building, and poles beginning 294' from DER, 41' left of centerline, up to 50' AGL/2655' MSL.

NEW BRAUNFELS, TX
NEW BRAUNFELS RGNL (BAZ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 15176 (FAA)
TAKEOFF OBSTACLE NOTES: RwY 13, poles beginning 1236' from DER, 277' right of centerline, up to 40' AGL/678' MSL. Poles beginning 1238' from DER, 557' left of centerline, up to 41' AGL/677' MSL. Trees beginning 1339' from DER, 211' right of centerline, up to 55' AGL/690' MSL. RwY 35, airport visual aid 36' from DER, 25' right of centerline, 3' AGL/649' MSL.

ODESSA, TX
ODESSA-SCHLEMEYER FIELD (ODO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3A 18256 (FAA)
TAKEOFF MINIMUMS: RwY 16, 300-2 or std. w/min. climb of 255' per NM to 3400, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient. Takeoff must occur no later than 2100' prior to DER. RwY 20, 300-2 or std. w/min. climb of 225' per NM to 3400, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient. Takeoff must occur no later than 2100' prior to DER. RwY 31, 300-1 or std. with a min. climb of 380' per NM to 2600.
TAKEOFF OBSTACLE NOTES: RwY 2, vehicles on roadway 184' from DER, left and right of centerline, up to 13' AGL/3013' MSL. RwY 16, tower 1.5 NM from DER, 2759' right of centerline, 145' AGL/3205' MSL. RwY 20, tower 2.0 NM from DER, 1311' left of centerline, 340' AGL/3287' MSL. RwY 29, rising terrain, trees and poles beginning 8' from DER, 495' right of centerline, up 3012' MSL. RwY 34, vehicles on roadway beginning 48' from DER, left and right of centerline, up to 16' AGL/3001' MSL. Hangars 739' from DER, 628' left of centerline, 25' AGL/3012' MSL. Antenna 1104' from DER, 185' right of centerline, 45' AGL/3032' MSL.

OZONA, TX
OZONA MUNI (OZA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 03191 (FAA)
TAKEOFF MINIMUMS: RwY 16, 300-1 or std. with a min. climb of 445' per NM to 2700. RwY 34, 200-1/2 or std. with a min. climb of 380' per NM to 2600.
TAKEOFF OBSTACLE NOTES: RwY 16, trees 3686' from DER, 354' left of centerline, 100' AGL/2560' MSL. Trees 4438' from DER, 355' left of centerline, 100' AGL/2574' MSL. RwY 34, trees 1363' from DER, 638' left of centerline, 100' AGL/2529' MSL. Trees 3479' from DER, 791' left of centerline, 100' AGL/2535' MSL. Trees 7679' from DER, 932' left of centerline, 100' AGL/2593' MSL.

PEARSALL, TX
MC KINLEY FIELD (T30)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 11321 (FAA)
TAKEOFF OBSTACLE NOTES: RwY 13, trees beginning abeam DER, 300' left of centerline, up to 40' AGL/605' MSL. Transmission lines beginning 1777' from DER, across centerline, up to 80' AGL/642' MSL. RwY 31, train on track 496' from DER, across centerline, 23' AGL/610' MSL. Vehicle on road 291' from DER, across centerline, 18' AGL/602' MSL.

PECOS, TX
PECOS MUNI (PEQ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 12264 (FAA)
TAKEOFF OBSTACLE NOTES: RwY 14, bush 170' from DER, 252' right of centerline, up to 7' AGL/2607' MSL. RwY 32, bush 129' from DER, 348' left of centerline, up to 9' AGL/2614' MSL.

PLEASANTON, TX
PLEASANTON MUNI (PEZ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 08325 (FAA)
TAKEOFF OBSTACLE NOTES: RwY 16, vehicle on road 108' from DER, 285' left of centerline, 15' AGL/424' MSL. Fence 135' from DER, 194' left of centerline, 3' AGL/412' MSL. Fence 235' from DER, 38' right of centerline, 3' AGL/412' MSL. Trees beginning 246' from DER, 56' left of centerline, up to 100' AGL/529' MSL. Trees beginning 173' from DER, 154' right of centerline, up to 100' AGL/529' MSL. RwY 34, vehicle on road 136' from DER, left to right of centerline, up to 15' AGL/444' MSL. Fence 191' from DER, 251' left of centerline, 3' AGL/442' MSL. Trees beginning 210' from DER, 51' left of centerline, up to 100' AGL/539' MSL. Tree 172' from DER, 74' right of centerline, 100' AGL/529' MSL.
PORT ARANSAS, TX
MUSTANG BEACH (RAS)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 09015 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 12, transmission towers and poles beginning 43’ from DER, 28’ right of centerline, up to 81’ AGL/88’ MSL. Building 2435’ from DER, 967’ right of centerline, 130’ AGL/135’ MSL. Transmission towers and poles beginning 1141’ from DER, 13’ left of centerline, up to 83’ AGL/88’ MSL.

PORT ISABEL, TX
PORT ISABEL-CAMERON COUNTY (PIL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2B 18200 (FAA)
DEPARTURE PROCEDURE: Takeoff minimums and (obstacle) departure procedures.

TAKEOFF OBSTACLE NOTES: Takeoff minimums, (obstacle) departure procedures.

DEPARTURE PROCEDURE: Takeoff minimums and (obstacle) departure procedures.

DEPARTURE PROCEDURE: Takeoff minimums and (obstacle) departure procedures.

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DEPARTURE PROCEDURE: Takeoff minimums and (obstacle) departure procedures.

DEPARTURE PROCEDURE: Takeoff minimums and (obstacle) departure procedures.

ROBSTOWN, TX
NUCES COUNTY (RBO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 12264 (FAA)
TAKEOFF MINIMUMS: Given.

DEPARTURE PROCEDURE: Takeoff minimums and (obstacle) departure procedures.

DEPARTURE PROCEDURE: Takeoff minimums and (obstacle) departure procedures.

ROCKPORT, TX
ARANSAS COUNTY (RKP)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 07074 (FAA)
TAKEOFF OBSTACLE NOTES: Takeoff minimums, (obstacle) departure procedures.

DEPARTURE PROCEDURE: Takeoff minimums and (obstacle) departure procedures.

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DEPARTURE PROCEDURE: Takeoff minimums and (obstacle) departure procedures.
SAN ANGELO, TX
SAN ANGELO RNGL/MATHIS FIELD (SJT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 10238 (FAA)
DEPARTURE PROCEDURE: RwY 27, climb to 2500 before turning right. RwY 36, climb to 2600 before turning left.
TAKEOFF OBSTACLE NOTES: RwY 3, fence 8' from DER, 490' right of centerline, 3' AGL/1896' MSL. RwY 18, multiple trees and poles beginning 112' from DER, 183' left of centerline, up to 43' AGL/1696' MSL. Multiple trees and poles beginning 1076' from DER, 114' right of centerline, up to 47' AGL/1966' MSL. Catenary 1779' from DER, 457' right of centerline, 45' AGL/1964' MSL. RwY 27, multiple trees beginning 482' from DER, 74' left of centerline, up to 103' AGL/1893' MSL. Light pole 1040' from DER, 252' left of centerline, 22' AGL/1931' MSL. Tree 538' from DER, 226' right of centerline, 21' AGL/1930' MSL.

SAN ANTONIO, TX
BOERNE STAGE FIELD (5C1)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 07018 (FAA)
DEPARTURE PROCEDURE: RwY 17, climb heading 169° to 2000 before turning westbound. RwY 35, climb heading 349° to 2800 before turning westbound.
TAKEOFF OBSTACLE NOTES: RwY 17, tree, pole beginning 20' from DER, 34' left of centerline, up to 1446' MSL. Tree, pole beginning 47' from DER, 12' right of centerline, up to 1410' MSL. Pole, tree beginning 788' from DER, 526' left of centerline, up to 1448' MSL. Trees beginning 1005' from DER, 566' left of centerline, up to 1451' MSL. Tree 2244' from DER, 986' right of centerline, 1450' MSL. Tree 2327' from DER, 1069' right of centerline, 1455' MSL. Tree 2464' from DER, 1005' left of centerline, 1452' MSL. Tree 2465' from DER, 1093' right of centerline, 1457' MSL. Tree 2531' from DER, 1082' left of centerline, 1454' MSL. Trees beginning 2569' from DER, 980' right of centerline, up to 1471' MSL. Trees beginning 2059' from DER, 1037' right of centerline, up to 1476' MSL. RwY 35, building beginning 3' from DER, 221' right of centerline, up to 1400' MSL. Trees beginning 79' from DER, 175' right of centerline, up to 1412' MSL. Tree, pole beginning 103' from DER, 8' left of centerline, up to 1416' MSL. Trees beginning 163' from DER, 23' right of centerline, up to 1431' MSL. Pole, tree beginning 207' from DER, 37' left of centerline, up to 1418' MSL. Pole, tree beginning 246' from DER, 103' left of centerline, up to 1422' MSL. Trees beginning 437' from DER, 573' left of centerline, up to 1426' MSL. Trees beginning 584' from DER, 78' left of centerline, up to 1428' MSL. Trees beginning 778' from DER, 371' left of centerline, up to 1430' MSL.

SAN ANTONIO, TX (CON’T)
SAN ANTONIO INTL (SAT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 17061 (FAA)
TAKEOFF OBSTACLE NOTES: RwY 13R, antenna on rtr tower, 1034' from DER, 723' right of centerline, 42' AGL/820' MSL. Building 380' from DER, 1488' right of centerline, 117' AGL/881' MSL. RwY 22, antenna on hangar and flagpole 1198' from DER, 700' right of centerline, 39' AGL/825' MSL. Poles beginning 2209' from DER, 1041' right of centerline, up to 23' AGL/869' MSL. Sign 2713' from DER, 1034' right of centerline, 71' AGL/857' MSL. RwY 31L, pole 1931' from DER, 911' left of centerline, 42' AGL/867' MSL. Poles beginning 2356' from DER, 913' left of centerline, up to 42' AGL/892' MSL. Sign 2435' from DER, 1032' right of centerline, 42' AGL/873' MSL. Tower 2766' from DER, 834' left of centerline, 54' AGL/891' MSL. RwY 31R, rod on ol gs 1261' from DER, 591' left of centerline, 57' AGL/854' MSL.

STINSON MUNI (SSF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 08045 (FAA)
TAKEOFF MINIMUMS: RwY 8, Std. w/ min climb of 225' per NM to 1900 or 1000-2' per NM for visual conditions. RwY 27, 300-1½ or std. w/ min. climb of 221' per NM to 900, or alternatively, with standard takeoff minimums and normal 200' per NM climb gradient, takeoff must occur no later than 1700' prior to DER. DEPARTURE PROCEDURE: RwY 9. For climb in visual conditions, cross Stinson Muni Airport at or above 1400 MSL before proceeding on course. RwY 14, Climb heading 137° to 1200 before turning left. RwY 32, Climb heading 317° to 1500 before turning right. TAKEOFF OBSTACLE NOTES: RwY 9, Vehicle on road 285' from DER, 380' left of centerline, 15' AGL/584' MSL. Trees beginning 1653' from DER, 435' right of centerline, up to 70' AGL/629' MSL. RwY 14, Vehicle on road 114' from DER, on centerline extending 373' left of centerline, up to 15' AGL/564' MSL. Trees beginning 72' from DER, 79' right of centerline, up to 70' AGL/607' MSL. Trees beginning 232' from DER, 54' left of centerline, up to 70' AGL/618' MSL. Transmission line tower 4205' from DER, 133' right of centerline, 119' AGL/683' MSL. RwY 27, Fence 41' from DER, 30' right of centerline, 8' AGL/584' MSL. Vehicle on road 1018' from DER, 202' right of centerline, 15' AGL/584' MSL. Vehicle on road 123' from DER, 113' right of centerline, 15' AGL/596' MSL. Trees and poles beginning 229' from DER, 117' right of centerline, up to 70' AGL/645' MSL. Trees and poles beginning 599' from DER, 6' left of centerline, up to 70' AGL/634' MSL. Trees and poles beginning 1338' from DER, 179' right of centerline, 179' AGL/799' MSL. Building 1422' from DER, 432' right of centerline, 40' AGL/627' MSL. Building 2133' from DER, 36' left of centerline, 55' AGL/635' MSL. RwY 32, Fence 17' from DER, 80' left of centerline, 18' AGL/578' MSL. Vehicle on road 54' from DER, 199' left of centerline, 15' AGL/586' MSL. Trees beginning 164' from DER, 125' right of centerline, up to 70' AGL/639' MSL. Trees and poles beginning 43' from DER, 41' left of centerline, up to 75' AGL/668' MSL.
SINTON, TX
ALFRED C. BUBBA THOMAS (T69)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 14317 (FAA)
TAKEOFF MINIMUMS: Rwys 3, 21, NA-Environmental.
DEPARTURE PROCEDURE: Rwys 14, climb runway heading to 800 prior to turning east.
TAKEOFF OBSTACLE NOTES: Rwys 32, vehicle on road 29' from DER, 308' right of centerline, 15' AGL/64' MSL.

SONORA, TX
SONORA MUNI (SOA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 15232 (FAA)
TAKEOFF MINIMUMS: Rw 18, 300-1 or std. w/min. climb gradient of 553' per NM to 2400.
DEPARTURE PROCEDURE: Rw 18, climb heading 182° to 2900 before turning left.
TAKEOFF OBSTACLE NOTES: Rw 18, buildings beginning 683' from DER, left and right of centerline, up to 27' AGL/2163' MSL. Trees and terrain beginning 2233' from DER, 686' right of centerline, up to 50' AGL/2309' MSL. Tower 4860' from DER, 1458' right of centerline, 75' AGL/2287' MSL. Rw 36, fence beginning 2' from DER, left and right of centerline, up to 5' AGL/2144' MSL. Vehicles on road beginning 8' from DER, left and right of centerline, up to 10' AGL/2149' MSL. Tree 65' from DER, 462' right of centerline, 48' AGL/2178' MSL. Tree 247' from DER, 337' left of centerline, 47' AGL/2187' MSL. Trees beginning 278' from DER, 439' right of centerline, up to 27' AGL/2157' MSL. Tree 759' from DER, 508' left of centerline, 15' AGL/2195' MSL. Trees and terrain beginning 981' from DER, 258' left of centerline, up to 39' AGL/2269' MSL.

TAYLOR, TX
TAYLOR MUNI (T74)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 17229 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 17, transmission line towers beginning 2212' from DER, 17' left of centerline, up to 50' AGL/656' MSL. Transmission line towers beginning 2228' from DER, 463' right of centerline, up to 85' AGL/649' MSL. Transmission line tower 2365' from DER, 1041' right of centerline, 110' AGL/661' MSL. Rw 35, vehicles on road 773' from DER, 544' left of centerline, 630' MSL. Pole and tree beginning 829' from DER, 442' left of centerline, up to 28' AGL/642' MSL. Vehicles on road 1105' from DER, 427' right of centerline, 635' MSL. Tree 1129' from DER, 415' right of centerline, 639' MSL. Poles beginning 1150' from DER, 474' right of centerline, up to 30' AGL/644' MSL.

TEMPLE, TX
DRAUGHON-MILLER CENTRAL TEXAS RGNL (TPL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 10266 (FAA)
DEPARTURE PROCEDURE: Rw 2, climb on heading between 085° CW to 200° from DER, or climb on heading between 200° CW to 345° from DER to 3600 before proceeding on course or minimum climb of 250' per NM to 3200 for all other courses. Rw 33, climb on heading between 070° CW to 155° from DER, or climb on heading between 155° CW to 330° from DER to 3600 before proceeding on course or minimum climb of 240' per NM to 3200 for all other courses.
TAKEOFF OBSTACLE NOTES: Rw 2, tree 279' from DER, 362' right of centerline, 11' AGL/680' MSL. Bushes and tree beginning 176' from DER, 416' left of centerline, up to 30' AGL/699' MSL. Rw 15, bush 60' from DER, 210' left of centerline, 11' AGL/680' MSL. Rw 20, hangars beginning 548' from DER, 571' right of centerline, up to 18' AGL/697' MSL. Rw 33, trees beginning 307' from DER, 474' right of centerline, up to 32' AGL/701' MSL.

UVALDE, TX
GARNER FIELD (UVA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 11125 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 15, trees and poles beginning 70' from DER, 374' left of centerline, up to 100' AGL/1039' MSL. Trees and poles beginning 208' from DER, 359' right of centerline, up to 100' AGL/1059' MSL. Rw 33, vehicle on roadway 622' from DER, left and right of centerline, up to 15' AGL/866' MSL. Trees beginning 744' from DER, 636' left of centerline, up to 100' AGL/1059' MSL. Trees beginning 861' from DER, 269' right of centerline, up to 100' AGL/1049' MSL.

VAN HORN, TX
CULBERSON COUNTY (VHN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 19227 (FAA)
TAKEOFF MINIMUMS: Rw 25, NA-Obstacles.
DEPARTURE PROCEDURE: Rwys 3, 7, 21, Use JURDU DEPARTURE.
TAKEOFF OBSTACLE NOTES: Rw 3, tree, vegetation beginning 16' from DER, 133' right of centerline, up to 11' AGL/3928' MSL. Trees, vegetation beginning 45' from DER, 147' left of centerline, up to 11' AGL/3929' MSL. Tree, traverse way beginning 135' from DER, 487' right of centerline, up to 17' AGL/3930' MSL. Trees, traverse way beginning 248' from DER, 343' right of centerline, up to 18' AGL/3931' MSL. Rw 7, vegetation beginning 60' from DER, 12' right of centerline, up to 100' AGL/3918' MSL. Vegetation 119' from DER, 215' left of centerline, 100' AGL/3915' MSL. Vegetation beginning 148' from DER, 12' left of centerline, up to 100' AGL/3918' MSL. Rw 21, tree, vegetation beginning 49' from DER, 291' right of centerline, up to 10' AGL/3969' MSL. Vegetation beginning 84' from DER, 404' left of centerline, up to 3961' MSL. Vegetation 4132' from DER, 1604' right of centerline, 100' AGL/3990' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

WACO, TX
MC GREGOR EXECUTIVE (PWG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 90347 (FAA)
TAKEOFF MINIMUMS: Rwys 4, 17, 22, 35, 2000-3 or std. with a min. climb of 280' per NM to 3000.
DEPARTURE PROCEDURE: Rwys 17, 22, climb via ACT R-195 to 3000 before proceeding on course.
Rwys 4, 35, climb runway heading to 3000 before proceeding on course.

TSTC WACO (CNW)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 19339 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 17L, terrain 104' from DER, 473' right of centerline, 460' MSL. Terrain 198' from DER, 467' right of centerline, 464' MSL.
Poles beginning 1123' from DER, 584' left of centerline, up to 45' AGL/493' MSL. Rwy 17R, vehicles on roads beginning at DER, 365' right of centerline, up to 10' AGL/479' MSL. Trees beginning 750' from DER, 482' right of centerline, up to 66' AGL/514' MSL. Trees beginning 870' from DER, 238' right of centerline, up to 81' AGL/530' MSL. Tree 1239' from DER, 449' left of centerline, 497' MSL. Tree 1568' from DER, 629' left of centerline, 500' MSL. Tree 1924' from DER, 73' left of centerline, 512' MSL. Rwy 35L, aircraft on taxiway at DER, on centerline, 65' AGL/532' MSL. Aircraft on taxiway 783' from DER, 478' left of centerline, 65' AGL/534' MSL. Aircraft on taxiway 808' from DER, 315' right of centerline, 65' AGL/518' MSL. Tree 2349' from DER, 669' left of centerline, 537' MSL. Tree 2877' from DER, 1044' left of centerline, 539' MSL. Rwy 35R, tree 2082' from DER, 897' left of centerline, 523' MSL.

WACO RGNL (ACT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 10266 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 1, rising terrain beginning 11' from DER, 34' right of centerline, up to 504' MSL. Pole 1170' from DER, 593' left of centerline, 34' AGL/534' MSL. Tree 1674' from DER, 794' right of centerline, 80' AGL/581' MSL. Rwy 19, rod 590' from DER, 257' right of centerline, 40' AGL/524' MSL. Rwy 32, trees beginning 501' from DER, 17' left of centerline, up to 70' AGL/662' MSL. Trees beginning 836' from DER, 30' right of centerline, up to 80' AGL/609' MSL.

WESLACO, TX
MID VALLEY (TXW)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 17061 (FAA)
DEPARTURE PROCEDURE: Rw y 14, climbing left turn heading 360° to 1800 before proceeding on course.
TAKEOFF OBSTACLE NOTES: Rw y 14, road, fence, sign, tree, bldg, beginning 4' from DER, 174' left of centerline, up to 84' MSL. Road, fence, beginning 18' from DER, 442' right of centerline, up to 82' MSL. Road 71' from DER, 502' right of centerline, 83' MSL. Tree, flagpole, road, pole, beginning 94' from DER, 421' left of centerline, up to 26' AGL/90' MSL. Flagpole, road, beginning 110' from DER, 373' left of centerline, up to 31' AGL/96' MSL. Tree, road, fence, beginning 161' from DER, 429' left of centerline, up to 33' AGL/98' MSL. Pole, beginning 220' from DER, 408' left of centerline, up to 32' AGL/99' MSL. Pole, tree, beginning 242' from DER, 412' left of centerline, up to 34' AGL/101' MSL. Light pole, beginning 284' from DER, 462' left of centerline, up to 38' AGL/103' MSL. Pole, tree, It pole, beginning 289' from DER, 349' left of centerline, up to 37' AGL/105' MSL. Pole, tree, pole, beginning 360' from DER, 307' left of centerline, up to 60' AGL/131' MSL. Catenary, road, beginning 520' from DER, 468' right of centerline, up to 33' AGL/100' MSL. Pole, tree, beginning 546' from DER, 337' right of centerline, up to 33' AGL/101' MSL. Tree, It pole, catenary, beginning 745' from DER, 268' right of centerline, up to 42' AGL/108' MSL. Antenna, pole, catenary, beginning 1422' from DER, 437' right of centerline, up to 59' AGL/127' MSL. Flagpole, pole, beginning 1711' from DER, 763' right of centerline, up to 75' AGL/142' MSL. Rw y 32, road, fence, beginning 17' from DER, 345' left of centerline, up to 82' MSL. Tree 64' from DER, 29' left of centerline, 29' AGL/95' MSL. Tree 69' from DER, 496' left of centerline, 32' AGL/97' MSL. Pole 109' from DER, 524' left of centerline, 33' AGL/100' MSL. Pole, road, tree, bldg, beginning 111' from DER, 261' left of centerline, up to 38' AGL/103' MSL. Road, beginning 562' from DER, 396' right of centerline, up to 87' MSL. Road 630' from DER, 391' right of centerline, 88' MSL. Road, beginning 659' from DER, 75' right of centerline, up to 89' MSL. Trees, beginning 881' from DER, 571' left of centerline, up to 40' AGL/106' MSL.

WINK, TX
WINKLER COUNTY (INK)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 11069 (FAA)
DEPARTURE PROCEDURE: Rw y 13, climb heading 147° to 3400 before proceeding on course.
TAKEOFF OBSTACLE NOTES: Rw y 4, power lines beginning 524' from DER, right and left of centerline, up to 30' AGL/2829' MSL. Trees beginning 742' from DER, right and left of centerline, up to 50' AGL/2859' MSL. Rw y 13, trees beginning 133' from DER, 307' right of centerline, up to 50' AGL/2822' MSL. Vehicles on road beginning 535' from DER, right and left of centerline, up to 15' AGL/2829' MSL. Rw y 31, trees beginning 49' from DER, 396' left of centerline, up to 50' AGL/2832' MSL. Trees beginning 1563' from DER, 589' right of centerline, up to 50' AGL/2874' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

WINTERS, TX
WINTERS MUNI (77F)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 11237 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 17, multiple trees and fence beginning 428' from DER, 45' left of centerline, up to 25' AGL/1914' MSL. Multiple trees and terrain beginning 110' from DER, 188' right of centerline, up to 12' AGL/1895' MSL.

YOAKUM, TX
YOAKUM MUNI (T85)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 11069 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 13, vehicle on road, 179' from DER, 237' left of centerline, up to 15' AGL/364' MSL. Rwy 31, vehicle on road, 77' from DER, 257' right of centerline, up to 15' AGL/384' MSL.
NOTE: RADAR Required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: WAILN Transition for Houston Terminal Area Departures only.

VERTICAL NAVIGATION
PLANNING INFORMATION

Turbojets: Expect 13000
ARRIVAL ROUTE DESCRIPTION

HOBBY TRANSITION (HUB.BRAUN2)
HUMBLE TRANSITION (IAH.BRAUN2)
LUFKIN TRANSITION (LFK.BRAUN2)
WACO TRANSITION (ACT.BRAUN2)
WAILN TRANSITION (WAILN.BRAUN2)
WINDU TRANSITION (WINDU.BRAUN2)

SAN ANTONIO INTL (SAT):

From MARCS on track 240° to BRAUN.

LANDING RWY 4:
From BRAUN on track 215° to POYIG, then on track 219° to BEBNE, then on track 219°.
Expect radar vectors to final approach course.

LANDING RWYS 13L/R:
From BRAUN on track 240° to TROOP, then on track 240° to CRIS, then on track 295°
to JATAX, then on track 308°. Expect radar vectors to final approach course.

LANDING RWY 22:
From BRAUN on track 235° to ZALYO. Expect RNAV (RNP) Rwy 22, or expect vectors
to final approach course.

LANDING RWYS 31L/R:
From BRAUN on track 240° to TROOP, then on track 165° to ALRGI, then on track 128°
to TAHKO, then on track 128°. Expect radar vectors to final approach course.

ALL OTHER AIRPORTS:
From MARCS on track 240° to BRAUN, then on track 240° to RTAMA, then on track 240°.
Expect radar vectors to final approach course.
ARIVAL ROUTE DESCRIPTION

FORT STOCKTON TRANSITION (FST.CSI2):  From over FST VORTAC via FST R-096 and CSI R-280 to CSI VORTAC. Thence . . . .

JUNCTION TRANSITION (JCT.CSI2):  From over JCT VORTAC via JCT R-134 and CSI R-314 to CSI VORTAC. Thence . . . .

. . . . From over CSI VORTAC on CSI R-105 to REUBE INT. Expect vectors to final approach course.
ARRIVAL ROUTE DESCRIPTION

CORPUS CHRISTI TRANSITION (CRP.LEMIG1): From over CRP VORTAC via CRP R-305 and THX R-126 to THX VORTAC, then via THX R-319 to LEMIG INT. Thence . . . .

COTULLA TRANSITION (COT.LEMIG1): From over COT VORTAC via COT R-037 to LEMIG INT. Thence . . . .

LAREDO TRANSITION (LRD.LEMIG1): From over LRD VORTAC via LRD R-019 to LEMIG INT. Thence . . . .

THREE RIVERS TRANSITION (THX.LEMIG1): From over THX VORTAC via THX R-319 to LEMIG INT. Thence . . . .

. . . . ALL AIRPORTS: From over LEMIG INT via SAT R-175 to ELKAY INT. Expect radar vectors to final approach course.
ARRIVAL ROUTE DESCRIPTION

CENTEX TRANSITION [CWK.MARCS1]: From over CWK VORTAC
via CWK R-205 to MARCS INT. Thence. . . .

INDUSTRY TRANSITION [IDU.MARCS1]: From over IDU VORTAC
via IDU R-259 to MARCS INT. Thence. . . .

LUFKIN TRANSITION [LFK.MARCS1]: From over LFK VORTAC
via LFK R-228 and IDU R-044 to IDU VORTAC, then via IDU R-259
to MARCS INT. Thence. . . .

WACO TRANSITION [ACT.MARCS1]: From over ACT VORTAC
via ACT R-165 to BLEWE INT, then via CWK R-012 to CWK VORTAC,
then via CWK R-205 to MARCS INT. Thence. . . .

WINDU TRANSITION [WINDU.MARCS1]: From over WINDU INT
via CWK R-012 to CWK VORTAC, then via CWK R-205 to MARCS INT.
Thence. . . .

. . . . From over MARCS on SAT R-056 to BRAUN, then on SAT R-056 to TROOP.
Thence....

SAN ANTONIO INTL [SAT]:
LANDING RWY 13R: On SAT R-056 to CRISS. Depart CRISS heading 300°
for vectors to final approach course.
LANDING RWY 31L: Depart TROOP heading 140° for vectors to
final approach course.
LANDING ALL OTHER RUNWAYS: On SAT R-056 to CRISS. Expect vectors
to final approach course.

ALL OTHER AIRPORTS: On SAT R-056 to CRISS. Expect vectors to final
approach course.
ARIVAL ROUTE DESCRIPTION

ABILENE TRANSITION (ABI.STV1): From over ABI VORTAC via ABI R-146 and STV R-329 to STV VORTAC. Thence . . . .

JUNCTION TRANSITION (JCT.STV1): From over JCT VORTAC via JCT R-104 and STV R-284 to STV VORTAC. Thence . . . .

LLANO TRANSITION (LLO.STV1): From over LLO VORTAC via LLO R-165 and STV R-284 to STV VORTAC. Thence . . . .

ALL AIRPORTS EXCEPT RANDOLPH AIR FORCE BASE: . . . . From over STV VORTAC via STV R-177 to REUBE INT. Expect radar vectors to final approach course.

RANDOLPH AIR FORCE BASE: . . . . From over STV VORTAC via direct RND VORTAC.