### 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*

<table>
<thead>
<tr>
<th>CITY/AIRPORT</th>
<th>HOT SPOT</th>
<th>DESCRIPTION*</th>
</tr>
</thead>
<tbody>
<tr>
<td>DULUTH, MN</td>
<td>HS 1</td>
<td>Rwy 21 via Twy A and Twy C complex int.</td>
</tr>
<tr>
<td>FARGO, ND</td>
<td>HS 1</td>
<td>Rwy 09-27 at Twy B.</td>
</tr>
<tr>
<td>HEectar INTL (FAR)</td>
<td>HS 2</td>
<td>Rwy 18-36 at Twy C.</td>
</tr>
<tr>
<td>GRAND FORKS, ND</td>
<td>HS 1</td>
<td>Rwy 09L and Twy A int.</td>
</tr>
<tr>
<td>GRAND FORKS INTL (GFK)</td>
<td>HS 2</td>
<td>Rwy 17R and Twy B int.</td>
</tr>
<tr>
<td>MINNEAPOLIS, MN</td>
<td>HS 1</td>
<td>Short distance between rwys.</td>
</tr>
<tr>
<td>CRYSTAL (MIC)</td>
<td>HS 2</td>
<td>Short distance between rwys.</td>
</tr>
<tr>
<td>MINNEAPOLIS, MN</td>
<td>HS 3</td>
<td>Short distance between rwys.</td>
</tr>
<tr>
<td>FLYING CLOUD (FCM)</td>
<td>HS 4</td>
<td>Int of Rwy 06R (sod) on Twy F.</td>
</tr>
<tr>
<td>MINNEAPOLIS, MN</td>
<td>HS 5</td>
<td>Int of Rwy 24L (sod) on Twy D.</td>
</tr>
<tr>
<td>MINNEAPOLIS-ST PAUL INTL/ WOLD-CHAMBERLAIN (MSP)</td>
<td>HS 6</td>
<td>Multiple vehicle/pedestrian deviations occurrence.</td>
</tr>
<tr>
<td>MINNEAPOLIS, MN</td>
<td>HS 7</td>
<td>Close proximity of Rwy 14R and Rwy 06R.</td>
</tr>
<tr>
<td>FLYING CLOUD (FCM)</td>
<td>HS 8</td>
<td>Rwy 24R proximity to Twy E and Twy B int.</td>
</tr>
<tr>
<td>MINNEAPOLIS, MN</td>
<td>HS 1</td>
<td>Risk of pilot confusion between Rwy 28L and Rwy 28R on apch.</td>
</tr>
<tr>
<td>FLYING CLOUD (FCM)</td>
<td>HS 2</td>
<td>Direct access to Rwy 28R-10L.</td>
</tr>
<tr>
<td>MINNEAPOLIS, MN</td>
<td>HS 3</td>
<td>Rwy 18 apch area along Twy A.</td>
</tr>
<tr>
<td>FLYING CLOUD (FCM)</td>
<td>HS 4</td>
<td>Direct access to Rwy 10L-28R.</td>
</tr>
<tr>
<td>MINNEAPOLIS, MN</td>
<td>HS 5</td>
<td>Short taxi distance from ramp to rwy hold line.</td>
</tr>
<tr>
<td>FLYING CLOUD (FCM)</td>
<td>HS 6</td>
<td>Risk of pilot confusion between Rwy 10L and Rwy 10R on apch.</td>
</tr>
<tr>
<td>MINNEAPOLIS-ST PAUL INTL/ WOLD-CHAMBERLAIN (MSP)</td>
<td>HS 3</td>
<td>Twy/rwy geometry and traffic flow.</td>
</tr>
<tr>
<td>MINNEAPOLIS-ST PAUL INTL/ WOLD-CHAMBERLAIN (MSP)</td>
<td>HS 4</td>
<td>Complex geometry at Rwy 04 apch end.</td>
</tr>
<tr>
<td>MINOT, ND</td>
<td>HS 1</td>
<td>Apch end of Rwy 08.</td>
</tr>
<tr>
<td>MINOT INTL (MOT)</td>
<td>HS 2</td>
<td>Int of Twy C and Rwy 08-26.</td>
</tr>
<tr>
<td>ROCHESTER, MN</td>
<td>HS 1</td>
<td>Complex twy/rwy/twy int.</td>
</tr>
<tr>
<td>ROCHESTER INTL (RST)</td>
<td>HS 2</td>
<td>Helicopter landings on Twy A.</td>
</tr>
<tr>
<td>ROCHESTER, MN</td>
<td>HS 2</td>
<td>Twy D between Rwy 13 and Rwy 32 unusual configuration for rwy holding position markings.</td>
</tr>
<tr>
<td>ROCHESTER INTL (RST)</td>
<td>HS 3</td>
<td>Helicopter operations on Twy B.</td>
</tr>
</tbody>
</table>

*(SEE CONTINUATION PAGE FOR MORE LISTINGS)*
<table>
<thead>
<tr>
<th>CITY/AIRPORT</th>
<th>HOT SPOT</th>
<th>DESCRIPTION*</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIOUX FALLS, SD</td>
<td>HS 1</td>
<td>Complex twy int in close proximity of rwys.</td>
</tr>
</tbody>
</table>

*See appropriate Chart Supplement HOT SPOT table for additional information.*
GRAND FORKS, NORTH DAKOTA

ILS or LOC RWY 35L
GRAND FORKS INTL (GFK)

ADF or DME or RADAR REQUIRED.

VDP NA with Crookston altimeter setting. When local altimeter setting not received, use Crookston altimeter setting and increase DA to 1107 feet and all MDA 80 feet; increase S-LOC 35L Cats C/D/E visibility to RVR 4000 and Circling Cats C and E visibility 1/4 SM. For inop ALS, increase S-ILS 35L Cat E visibility to RVR 4000 and S-LOC 35L Cat E visibility to RVR 5000. For inop ALS when using Crookston altimeter setting, increase S-ILS 35L all Cats visibility to RVR 4500 and S-LOC 35L Cat C/D/E visibility to RVR 6000. Procedure turn NA for Cat E aircraft, Radar required.

ATIS
119.4

GRAND FORKS APP CON
118.1 318.1

GRAND FORKS TOWER
118.4 (CTAF) 350.35

GND CON
124.575

CLNC DEL
135.725

UNICOM
122.95

GRAND FORKS, NORTH DAKOTA (GFK)

GRAND FORKS INTL (GFK)

ALTERNATE MISSED APCH FIX

LOCATOR 109.1
I-GFK
Channel 28

GRAND FORKS
114.3 GFK
Channel 90

Procedure NA for arrival on GFK VOR/DME airway radials 117 CW 230.
**LOC BC RWY 17R**

**GRAND FORKS INTL (GFK)**

**Missed Approach:** Climb to 2600 on I-GFK south course (174°) to HISER and hold.

**Localizer:** I-GFK 109.1

**Remote Approach Fix:** I-GFK 345

**Location:** 47°57'N-97°10'W

---

**ATIS**

- **Grand Forks, North Dakota (GFK)**
- **Grand Forks Intl (GFK)**
- **Chan 28**

**Approach Course**

- **109.1**
  - **LOC/DME I-GFK**
  - **Chan 28**

**DME or ADF or RADAR** required.

When local altimeter setting not received, use Crookston altimeter setting and increase all MDA 80 feet; increase S-17R Cat C visibility ¾SM and Circling Cat C visibility ¾SM.

Increase WUSIK fix minimums S-17R Cat C visibility and Circling Cat C visibility ¾SM.

**Elevations**

- **845**
- **TDZE 843**

**Procedure NA for arrival on GFK**

VOR/DME airway radials 354 CW 038.

**At 2600**

- **I-GFK**
  - **S crs** (174°)

**Disregard glideslope indications.**

Remain within 10 NM

**3.00°**

TCH 53

**354°**

**WUSIK**

- **I-GFK 1.5**

**ONAYU**

- **I-GFK 0.5**

**LOM/I-GFK 6.9 DME/RADAR and hold.**

**LOM**

- **HISER**
  - **I-GFK 345**

**GND CON**

- **124.575**

**ATIS**

- **119.4**

**Chan 90**

**Remain within 10 NM**

---

**Back Course**

**Category**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-17R</td>
<td>1300-1</td>
<td>457 (500-1)</td>
<td>1300-1½</td>
</tr>
<tr>
<td>CIRCLING</td>
<td>1300-1</td>
<td>455 (500-1)</td>
<td>1400-2</td>
</tr>
</tbody>
</table>

**WUSIK Fix Minimums**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-17R</td>
<td>1200-1</td>
<td>357 (400-1)</td>
<td>1200-1¼</td>
</tr>
<tr>
<td>CIRCLING</td>
<td>1260-1</td>
<td>415 (500-1)</td>
<td>1300-1</td>
</tr>
</tbody>
</table>

---

**GRAND FORKS, NORTH DAKOTA**

**Amdt 13A 26MAR20**

---

**LOC BC RWY 17R**

**GRAND FORKS INTL (GFK)**

---

**GRAND FORKS, NORTH DAKOTA**

**Amdt 13A 26MAR20**

---

**47°57'N-97°10'W**
RNAV (GPS) RWY 27R
GRAND FORKS INTL (GFK)

ATIS 119.4  GRAND FORKS APP CON 118.1 318.1  GRAND FORKS TOWER 118.4(CTAF) 350.35  GND CON 124.575  CLNC DEL 135.725  UNICOM 122.95

Procedure NA for arrival on GFK VOR/DME airway radials 071 CW 160.

859 902 871

GRAND FORKS, NORTH DAKOTA
AL-5187 (FAA)

RNAV (GPS) RWY 27R
GRAND FORKS INTL (GFK)

VDP NA when using Crookston altimeter setting. When local altimeter setting not received, use Crookston altimeter setting and increase all DA 62 feet and all MDA 80 feet. Increase LNAV and Circling Cat C and D visibility ½ SM.

MISSED APPROACH: Climb to 4000 direct DUCEV and hold, continue climb-in-hold to 4000.

ELEV 845  TDZE 843

GRAND FORKS, NORTH DAKOTA
Amdt 2A  26MAR20

RNAV (GPS) RWY 27R
GRAND FORKS INTL (GFK)

Amdt 2A  26MAR20  to  08 OCT 2020

NC-1, 10 SEP 2020  to  08 OCT 2020
RNAV (GPS) RWY 35L
GRAND FORKS INTL (GFK)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. For Inop ALS, increase LNAV/VNAV Cat D visibility to RVR 5000 and LNAV Cat C/D visibility to RVR 5500.

**ATIS**
119.4

**GRAND FORKS APP CON**
118.1 318.1

**GRAND FORKS TOWER**
118.4(CTAF) 350.35

**GND CON**
124.575

**CLNC DEL**
135.725

**UNICOM**
122.95

**ELEV 845**
D TDZE 845

**WAAS APP CRS**

<table>
<thead>
<tr>
<th>WAAS CH</th>
<th>APP CRS</th>
<th>Rwy Idg</th>
<th>TDZE</th>
<th>Apt Elev</th>
</tr>
</thead>
<tbody>
<tr>
<td>70313</td>
<td>354°</td>
<td>7351</td>
<td>845</td>
<td>845</td>
</tr>
</tbody>
</table>

**RNAV APCH.**

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. For Inop ALS, increase LNAV/VNAV Cat D visibility to RVR 5000 and LNAV Cat C/D visibility to RVR 5500.

**ATIS**
119.4

**GRAND FORKS APP CON**
118.1 318.1

**GRAND FORKS TOWER**
118.4(CTAF) 350.35

**GND CON**
124.575

**CLNC DEL**
135.725

**UNICOM**
122.95

**ELEV 845**
D TDZE 845

**WAAS APP CRS**

<table>
<thead>
<tr>
<th>WAAS CH</th>
<th>APP CRS</th>
<th>Rwy Idg</th>
<th>TDZE</th>
<th>Apt Elev</th>
</tr>
</thead>
<tbody>
<tr>
<td>70313</td>
<td>354°</td>
<td>7351</td>
<td>845</td>
<td>845</td>
</tr>
</tbody>
</table>

**RNAV APCH.**

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. For Inop ALS, increase LNAV/VNAV Cat D visibility to RVR 5000 and LNAV Cat C/D visibility to RVR 5500.

**ATIS**
119.4

**GRAND FORKS APP CON**
118.1 318.1

**GRAND FORKS TOWER**
118.4(CTAF) 350.35

**GND CON**
124.575

**CLNC DEL**
135.725

**UNICOM**
122.95

**ELEV 845**
D TDZE 845

**WAAS APP CRS**

<table>
<thead>
<tr>
<th>WAAS CH</th>
<th>APP CRS</th>
<th>Rwy Idg</th>
<th>TDZE</th>
<th>Apt Elev</th>
</tr>
</thead>
<tbody>
<tr>
<td>70313</td>
<td>354°</td>
<td>7351</td>
<td>845</td>
<td>845</td>
</tr>
</tbody>
</table>

**RNAV APCH.**

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. For Inop ALS, increase LNAV/VNAV Cat D visibility to RVR 5000 and LNAV Cat C/D visibility to RVR 5500.

**ATIS**
119.4

**GRAND FORKS APP CON**
118.1 318.1

**GRAND FORKS TOWER**
118.4(CTAF) 350.35

**GND CON**
124.575

**CLNC DEL**
135.725

**UNICOM**
122.95

**ELEV 845**
D TDZE 845

**WAAS APP CRS**

<table>
<thead>
<tr>
<th>WAAS CH</th>
<th>APP CRS</th>
<th>Rwy Idg</th>
<th>TDZE</th>
<th>Apt Elev</th>
</tr>
</thead>
<tbody>
<tr>
<td>70313</td>
<td>354°</td>
<td>7351</td>
<td>845</td>
<td>845</td>
</tr>
</tbody>
</table>

**RNAV APCH.**

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. For Inop ALS, increase LNAV/VNAV Cat D visibility to RVR 5000 and LNAV Cat C/D visibility to RVR 5500.

**ATIS**
119.4

**GRAND FORKS APP CON**
118.1 318.1

**GRAND FORKS TOWER**
118.4(CTAF) 350.35

**GND CON**
124.575

**CLNC DEL**
135.725

**UNICOM**
122.95

**ELEV 845**
D TDZE 845

**WAAS APP CRS**

<table>
<thead>
<tr>
<th>WAAS CH</th>
<th>APP CRS</th>
<th>Rwy Idg</th>
<th>TDZE</th>
<th>Apt Elev</th>
</tr>
</thead>
<tbody>
<tr>
<td>70313</td>
<td>354°</td>
<td>7351</td>
<td>845</td>
<td>845</td>
</tr>
</tbody>
</table>

**RNAV APCH.**

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. For Inop ALS, increase LNAV/VNAV Cat D visibility to RVR 5000 and LNAV Cat C/D visibility to RVR 5500.

**ATIS**
119.4

**GRAND FORKS APP CON**
118.1 318.1

**GRAND FORKS TOWER**
118.4(CTAF) 350.35

**GND CON**
124.575

**CLNC DEL**
135.725

**UNICOM**
122.95

**ELEV 845**
D TDZE 845

**WAAS APP CRS**

<table>
<thead>
<tr>
<th>WAAS CH</th>
<th>APP CRS</th>
<th>Rwy Idg</th>
<th>TDZE</th>
<th>Apt Elev</th>
</tr>
</thead>
<tbody>
<tr>
<td>70313</td>
<td>354°</td>
<td>7351</td>
<td>845</td>
<td>845</td>
</tr>
</tbody>
</table>

**RNAV APCH.**

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. For Inop ALS, increase LNAV/VNAV Cat D visibility to RVR 5000 and LNAV Cat C/D visibility to RVR 5500.

**ATIS**
119.4

**GRAND FORKS APP CON**
118.1 318.1

**GRAND FORKS TOWER**
118.4(CTAF) 350.35

**GND CON**
124.575

**CLNC DEL**
135.725

**UNICOM**
122.95

**ELEV 845**
D TDZE 845

**WAAS APP CRS**

<table>
<thead>
<tr>
<th>WAAS CH</th>
<th>APP CRS</th>
<th>Rwy Idg</th>
<th>TDZE</th>
<th>Apt Elev</th>
</tr>
</thead>
<tbody>
<tr>
<td>70313</td>
<td>354°</td>
<td>7351</td>
<td>845</td>
<td>845</td>
</tr>
</tbody>
</table>

**RNAV APCH.**

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. For Inop ALS, increase LNAV/VNAV Cat D visibility to RVR 5000 and LNAV Cat C/D visibility to RVR 5500.

**ATIS**
119.4

**GRAND FORKS APP CON**
118.1 318.1

**GRAND FORKS TOWER**
118.4(CTAF) 350.35

**GND CON**
124.575

**CLNC DEL**
135.725

**UNICOM**
122.95

**ELEV 845**
D TDZE 845

**WAAS APP CRS**

<table>
<thead>
<tr>
<th>WAAS CH</th>
<th>APP CRS</th>
<th>Rwy Idg</th>
<th>TDZE</th>
<th>Apt Elev</th>
</tr>
</thead>
<tbody>
<tr>
<td>70313</td>
<td>354°</td>
<td>7351</td>
<td>845</td>
<td>845</td>
</tr>
</tbody>
</table>
GRAND FORKS, NORTH DAKOTA

RNAV (GPS) RWY 9L
GRAND FORKS INTL (GFK)

ATIS 119.4
GRAND FORKS APP CON 118.1 318.1
GRAND FORKS TOWER* 118.4(CTAF) 350.35
GND CON 124.575
CLNC DEL 135.725
UNICOM 122.95

Procedure NA for arrivals at GFK VOR/DME on V55 northeast bound.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. When local altimeter setting not received, use Crookston altimeter setting and increase all DA 62 feet and all MDA 80 feet.
**VOR RWY 17R**

**GRAND FORKS INTL (GFK)**

**ATIS** 119.4

**GRAND FORKS APP CON** 118.1 318.1

**GRAND FORKS TOWER** 118.4(CTAF) 350.35

**GND CON** 124.575

**CLNC DEL** 135.725

**UNICOM** 122.95

---

**DME or RADAR required.**

When local altimeter setting not used, use Crookston altimeter setting and increase all MDAs 80 feet; Increase Cat C visibility to 1½ SM and Circling Cat C visibility ¾ SM. VDP NA with Crookston altimeter setting.

**ATIS**

**GRAND FORKS APP CON**

**GRAND FORKS TOWER**

**GND CON**

**CLNC DEL**

**UNICOM**

---

**GRAND FORKS INTL (GFK)**

**GRAND FORKS INTL (GFK)**

**MISSED APPROACH:** Climb to 3600 on GFK VOR/DME R-170 then left turn direct GFK VOR/DME and hold.

**MISSING APPROACH:** Climb to 3600 on GFK VOR/DME R-170 then left turn direct GFK VOR/DME and hold.

---

**CATEGORY**

**A**

**B**

**C**

**D**

**S-17R**

1220-1 377 (400-1)

1220-11/4 377 (400-11/4)

---

**CIRCLING**

1280-1 435 (500-1)

1300-1 455 (500-1)

1400-11/2 555 (600-11/2)

1400-2 555 (600-2)

---

**GRAND FORKS, NORTH DAKOTA**

Amdt 6B 26MAR20
When local altimeter setting not received, use Crookston altimeter setting and increase all MDA 80 feet; increase Cat C/D visibility to 1½ SM and Circling Cat C visibility ½ SM. Increase ELVAW fix minimums Cat C/D visibility to RVR 4500 and Circling Cat C visibility ½ SM. For inop ALS, increase S-35L Cat C/D visibility to 1½ SM. Increase ELVAW fix minimums: For inop ALS, increase S-35L Cat C/D visibility to RVR 5500.

**ELVAW Fix Minimums**

- For inop ALS, increase S-35L Cat C visibility 1 SM. Increase ELVAW fix minimums Cat C/D visibility to increase all MDA 80 feet; increase Cat C/D visibility to 1½ SM and Circling Cat C visibility ½ SM. Increase ELVAW fix minimums Cat C/D visibility to RVR 4500 and Circling Cat C visibility ½ SM. For inop ALS, increase S-35L Cat C/D visibility to 1½ SM. Increase ELVAW fix minimums: For inop ALS, increase S-35L Cat C/D visibility to RVR 5500.

**Category C/D Visibility**

- Increase all MDA 80 feet; increase Cat C/D visibility to 1½ SM and Circling Cat C visibility ½ SM. Increase ELVAW fix minimums Cat C/D visibility to RVR 4500 and Circling Cat C visibility ½ SM. For inop ALS, increase S-35L Cat C/D visibility to 1½ SM. Increase ELVAW fix minimums: For inop ALS, increase S-35L Cat C/D visibility to RVR 5500.

**ATS**

- Grand Forks APP CON: 318.1
- Grand Forks Tower: 350.35
- GND CON: 124.575
- CLNC DEL: 135.725
- UNICOM: 122.95

**ATIS**

- 119.4
- Grand Forks APP CON: 118.1
- Grand Forks Tower: 118.4 (CTAF) 350.35

**DME**

- MSA GFK 25 NM
- 3300
- 2700

**VOR/DME**

- GFK: 114.3
- Chan 90
- App CRS: 344°
- TDZE: 845
- Apt Elev: 845

**MALSR**

- M344

**ATIS**

- 119.4
- Grand Forks APP CON: 118.1
- Grand Forks Tower: 118.4 (CTAF) 350.35
- GND CON: 124.575
- CLNC DEL: 135.725
- UNICOM: 122.95

**ATS**

- Grand Forks APP CON: 318.1
- Grand Forks Tower: 350.35
- GND CON: 124.575
- CLNC DEL: 135.725
- UNICOM: 122.95

**DME**

- MSA GFK 25 NM
- 3300
- 2700
LAHSO is an acronym for "Land and Hold-Short Operations." These operations include landing and holding short of an intersection runway, an intersecting taxiway, or other predetermined points on the runway other than a runway or taxiway. Measured distance represents the available landing distance on the landing runway, in feet.

Specific questions regarding these distances should be referred to the air traffic manager of the facility concerned. The Aeronautical Information Manual contains specific details on hold-short operations and markings.

<table>
<thead>
<tr>
<th>CITY/AIRPORT</th>
<th>LDG RWY</th>
<th>HOLD-SHORT POINT</th>
<th>AVBL LDG DIST</th>
</tr>
</thead>
<tbody>
<tr>
<td>DULUTH, MN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DULUTH INTL (DLH)</td>
<td>09</td>
<td>03-21</td>
<td>8,950 feet</td>
</tr>
<tr>
<td>FARGO, ND</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HECTOR INTL (FAR)</td>
<td>18</td>
<td>13-31</td>
<td>7,900 feet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>36</td>
<td>6,600 feet</td>
</tr>
<tr>
<td>GRAND FORKS, ND</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GRAND FORKS INTL (GFK)</td>
<td>27R</td>
<td>17R-35L</td>
<td>3,000 feet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>35L</td>
<td>4,600 feet</td>
</tr>
<tr>
<td>MINNEAPOLIS, MN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MINNEAPOLIS-ST PAUL INTL/</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WOLD-CHAMBERLAIN (MSP)</td>
<td>22</td>
<td>TWY K</td>
<td>8,550 feet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30L</td>
<td>8,150 feet</td>
</tr>
<tr>
<td>TWY A9 TWY W9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ROCHESTER, MN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ROCHESTER INTL (RST)</td>
<td>02</td>
<td>13-31</td>
<td>5,850 feet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>13</td>
<td>5,270 feet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>31</td>
<td>3,200 feet</td>
</tr>
</tbody>
</table>
### 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>
</tr>
</thead>
<tbody>
<tr>
<td>ABERDEEN, SD</td>
<td>ILS or LOC Rwy 31&lt;sup&gt;1&lt;/sup&gt; RNAV (GPS) Rwy 13&lt;sup&gt;2&lt;/sup&gt; RNAV (GPS) Rwy 17&lt;sup&gt;2&lt;/sup&gt; RNAV (GPS) Rwy 31&lt;sup&gt;2&lt;/sup&gt; RNAV (GPS) Rwy 35&lt;sup&gt;2&lt;/sup&gt; VOR Rwy 13&lt;sup&gt;2&lt;/sup&gt; VOR Rwy 31&lt;sup&gt;2&lt;/sup&gt;</td>
</tr>
<tr>
<td>ABERDEEN, SD</td>
<td>LOC, Category D, 900-2¾.</td>
</tr>
<tr>
<td></td>
<td>Category D, 900-2¾.</td>
</tr>
<tr>
<td>AITKIN, MN</td>
<td>RNAV (GPS) Rwy 16 RNAV (GPS) Rwy 34</td>
</tr>
<tr>
<td>AITKIN MUNI-STEVE KURTZ</td>
<td>NA when local weather not available.</td>
</tr>
<tr>
<td>BEMIDJI, MN</td>
<td>RNAV (GPS) Rwy 13 RNAV (GPS) Rwy 25 RNAV (GPS) Rwy 31</td>
</tr>
<tr>
<td>BEMIDJI, MN</td>
<td>NA when local weather not available.</td>
</tr>
<tr>
<td>BENSON, MN</td>
<td>RNAV (GPS) Rwy 14 RNAV (GPS) Rwy 32</td>
</tr>
<tr>
<td>BENSON, MN</td>
<td>NA when local weather not available.</td>
</tr>
<tr>
<td>BISMARCK, ND</td>
<td>ILS or LOC Rwy 13&lt;sup&gt;12&lt;/sup&gt; ILS or LOC Rwy 31&lt;sup&gt;12&lt;/sup&gt; RADAR-1&lt;sup&gt;1&lt;/sup&gt; RNAV (GPS) Rwy 3&lt;sup&gt;3&lt;/sup&gt; RNAV (GPS) Rwy 13&lt;sup&gt;3&lt;/sup&gt; RNAV (GPS) Rwy 21&lt;sup&gt;3&lt;/sup&gt; RNAV (GPS) Rwy 31&lt;sup&gt;3&lt;/sup&gt; VOR-A&lt;sup&gt;4&lt;/sup&gt;</td>
</tr>
<tr>
<td>BISMARCK, ND</td>
<td>LOC, Category C, 800-2¾, Category D, 800-2½.</td>
</tr>
<tr>
<td></td>
<td>Category C, 800-2¼, Category D, 800-2½.</td>
</tr>
<tr>
<td>BOWMAN, ND</td>
<td>RNAV (GPS) Rwy 13 RNAV (GPS) Rwy 31</td>
</tr>
<tr>
<td>BOWMAN, ND</td>
<td>NA when local weather not available.</td>
</tr>
<tr>
<td>NAME</td>
<td>ALTERNATE MINIMUMS</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>BRAINERD, MN</td>
<td>BRAINERD LAKES</td>
</tr>
<tr>
<td>RGNL (BRD)</td>
<td>ILS or LOC Rwy 23(^1)</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 5</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 23</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 34</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available. (\text{1\text{-Category D, 700-2.}})</td>
</tr>
</tbody>
</table>

| BROOKINGS, SD         | BROOKINGS                    |
| RGNL (BKX)            | RNAV (GPS) Rwy 12            |
|                       | RNAV (GPS) Rwy 30            |
|                       | NA when local weather not available. \(\text{Category D, 800-2\%}}\) |

| BUFFALO, MN           | BUFFALO                       |
| MUNI (CFE)            | VOR-A                         |
|                       | NA when local weather not available. |

| CAMBRIDGE, MN         | CAMBRIDGE                     |
| MUNI (CBG)            | RNAV (GPS) Rwy 16             |
|                       | RNAV (GPS) Rwy 34             |
|                       | NA when local weather not available. |

| CAMP RIPLEY, MN       | RAY S. MILLER (KRYM)          |
| ILS OR LOC Rwy 31 LOC | RNAV (GPS) Rwy 14\(^2\)       |
|                       | RNAV (GPS) Rwy 25\(^2\)       |
|                       | RNAV (GPS) Rwy 32\(^2\)       |
|                       | NA when local weather not available. \(\text{1\text{\-ILS, Category D, 700-2.}}\) \(\text{2\text{\-NA when local weather not available.}}\) |

| CANBY, MN             | MYERS FIELD (CNB)             |
| RNAV (GPS) Rwy 12     | RNAV (GPS) Rwy 30             |
|                       | NA when local weather not available. |

| CARRINGTON, ND       | CARRINGTON                   |
| MUNI (46D)           | RNAV (GPS) Rwy 31             |
|                       | NA when local weather not available. |

| CAVALIER, ND         | CAVALIER                     |
| MUNI (2C8)           | RNAV (GPS) Rwy 34             |
|                       | NA when local weather not available. |

| CLOQUET, MN          | CLOQUET CARLTON              |
| COUNTY (COQ)         | RNAV (GPS) Rwy 18             |
|                       | RNAV (GPS) Rwy 36             |
|                       | NA when local weather not available. |

| COOK, MN             | COOK MUNI (CQM)              |
| RNAV (GPS) Rwy 13    | RNAV (GPS) Rwy 31             |
|                       | NA when local weather not available. |

| CROOKSTON, MN        | CROOKSTON MUNI-KIRKWOOD      |
| FIELD (CKN)          | RNAV (GPS) Rwy 13             |
|                       | RNAV (GPS) Rwy 31             |
|                       | VOR/DME Rwy 13               |
|                       | NA when local weather not available. |

| CROSBY, ND           | CROSBY                       |
| MUNI (D50)           | RNAV (GPS) Rwy 30             |
|                       | NA when local weather not available. \(\text{Category D, 800-2\%}}\) |

| DETROIT LAKES, MN    | DETROIT LAKES-WETHING        |
| FIELD (DTL)          | RNAV (GPS) Rwy 13             |
|                       | RNAV (GPS) Rwy 31             |
|                       | NA when local weather not available. \(\text{Category D, 800-2}}\) |

| DEVILS LAKE, ND      | DEVILS LAKE                  |
| RNAV (GPS) Rwy 3\(^2\) | RNAV (GPS) Rwy 13\(^2\)     |
|                       | RNAV (GPS) Rwy 21\(^2\)      |
|                       | RNAV (GPS) Rwy 31\(^2\)      |
|                       | VOR Rwy 3\(^2\)              |
|                       | VOR Rwy 13\(^2\)             |
|                       | VOR Rwy 3\(^1\)              |
|                       | NA when local weather not available. \(\text{1\text{\-Categories A, B, 900-2; Category C, 900-2\%}}\) \(\text{2\text{\-Category D, 800-2\%}}}\) |

| DICKINSON, ND        | DICKINSON-THEODORE ROOSEVELT  |
| RGNL (DIK)           | ILS or LOC Rwy 32\(^2\)       |
|                       | RNAV (GPS) Rwy 14\(^2\)       |
|                       | RNAV (GPS) Rwy 25\(^2\)       |
|                       | RNAV (GPS) Rwy 32\(^2\)       |
|                       | VOR-A\(^2\)                   |
|                       | NA when local weather not available. \(\text{1\text{\-ILS, Category D, 700-2.}}\) \(\text{2\text{\-NA when local weather not available.}}\) |

<p>| DODGE CENTER, MN     | DODGE CENTER (TOB)           |
| RNAV (GPS) Rwy 16     | RNAV (GPS) Rwy 34             |
|                       | VOR-A                        |
|                       | NA when local weather not available. |</p>
<table>
<thead>
<tr>
<th>NAME</th>
<th>ALTERNATE MINIMUMS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DULUTH, MN</strong></td>
<td></td>
</tr>
<tr>
<td>DULUTH INTL (DLH)</td>
<td>ILS or LOC Rwy 9¹</td>
</tr>
<tr>
<td></td>
<td>ILS or LOC Rwy 27¹</td>
</tr>
<tr>
<td></td>
<td>RADAR-1²</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 3³</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 9⁵</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 21³</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 27³</td>
</tr>
<tr>
<td></td>
<td>VOR or TACAN Rwy 3³</td>
</tr>
<tr>
<td></td>
<td>VOR/DME or TACAN Rwy 21³</td>
</tr>
<tr>
<td>¹LOC, Categories D, E, 1000-3.</td>
<td></td>
</tr>
<tr>
<td>²Categories D, E, 1000-3.</td>
<td></td>
</tr>
<tr>
<td>³Category D, 1000-3.</td>
<td></td>
</tr>
<tr>
<td><strong>ELY, MN</strong></td>
<td></td>
</tr>
<tr>
<td>ELY MUNI (ELO)</td>
<td>RNAV (GPS) Rwy 12</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 30</td>
</tr>
<tr>
<td>NA when local weather not available.</td>
<td></td>
</tr>
<tr>
<td><strong>EVELETH, MN</strong></td>
<td></td>
</tr>
<tr>
<td>EVELETH-VIRGINIA MUNI (EVM)</td>
<td>RNAV (GPS) Rwy 27¹</td>
</tr>
<tr>
<td></td>
<td>VOR-A²</td>
</tr>
<tr>
<td>¹NA when local weather not available.</td>
<td></td>
</tr>
<tr>
<td>²Category C, 800-2½; Category D, 800-2½.</td>
<td></td>
</tr>
<tr>
<td><strong>FAIRMONT, MN</strong></td>
<td></td>
</tr>
<tr>
<td>FAIRMONT MUNI (FRM)</td>
<td>ILS or LOC Rwy 3¹</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 3¹</td>
</tr>
<tr>
<td>¹LOC, Category C, 900-2½; Category D, 900-2½.</td>
<td></td>
</tr>
<tr>
<td>²Category C, 900-2½; Category D, 900-2½.</td>
<td></td>
</tr>
<tr>
<td><strong>FARGO, ND</strong></td>
<td></td>
</tr>
<tr>
<td>HECTOR INTL (FAR)</td>
<td>ILS or LOC Rwy 18¹</td>
</tr>
<tr>
<td></td>
<td>ILS or LOC Rwy 36¹</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 9³</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 18³</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 27³</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 36³</td>
</tr>
<tr>
<td></td>
<td>VOR Rwy 36³</td>
</tr>
<tr>
<td>¹ILS, Category C, 700-2; Category D, 800-2½; Category E, 800-2½. LOC, Category D, 800-2½; Category E, 800-2½.</td>
<td></td>
</tr>
<tr>
<td>²Category D, 800-2½; Category E, 800-2½.</td>
<td></td>
</tr>
<tr>
<td>³Category D, 800-2½.</td>
<td></td>
</tr>
<tr>
<td><strong>FARIBAULT, MN</strong></td>
<td></td>
</tr>
<tr>
<td>FARIBAULT MUNI-LIZ WALL STROHFUS FIELD (FBL)</td>
<td>RNAV (GPS) Rwy 12</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 30</td>
</tr>
<tr>
<td>NA when local weather not available.</td>
<td></td>
</tr>
<tr>
<td><strong>FERGUS FALLS, MN</strong></td>
<td></td>
</tr>
<tr>
<td>FERGUS FALLS MUNI-EINAR MICKELSON FIELD (FFM)</td>
<td>ILS or LOC Rwy 3¹</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 3¹</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 13³</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 3¹</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 35¹</td>
</tr>
<tr>
<td>¹NA when local weather not available.</td>
<td></td>
</tr>
<tr>
<td>²ILS, Category D, 700-2½.</td>
<td></td>
</tr>
<tr>
<td>³LOC, Category D, 800-2½.</td>
<td></td>
</tr>
<tr>
<td><strong>FORSSTON, MN</strong></td>
<td></td>
</tr>
<tr>
<td>FOSSTON MUNI-ANDERSON FIELD (FSE)</td>
<td>NDB Rwy 34¹</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 16</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 34</td>
</tr>
<tr>
<td>NA when local weather not available.</td>
<td></td>
</tr>
<tr>
<td>¹Category C, 800-2½.</td>
<td></td>
</tr>
<tr>
<td><strong>GLENCOE, MN</strong></td>
<td></td>
</tr>
<tr>
<td>GLENCOE MUNI (GYL)</td>
<td>RNAV (GPS) Rwy 3¹</td>
</tr>
<tr>
<td>NA when local weather not available.</td>
<td></td>
</tr>
<tr>
<td><strong>GLENWOOD, MN</strong></td>
<td></td>
</tr>
<tr>
<td>GLENWOOD MUNI (GHW)</td>
<td>RNAV (GPS) Rwy 15</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 33</td>
</tr>
<tr>
<td>NA when local weather not available.</td>
<td></td>
</tr>
<tr>
<td><strong>GRAND FORKS, ND</strong></td>
<td></td>
</tr>
<tr>
<td>GRAND FORKS INTL (GFK)</td>
<td>ILS or LOC Rwy 35L¹</td>
</tr>
<tr>
<td></td>
<td>LOC BC Rwy 17R</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 9L</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 17R</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 27R</td>
</tr>
<tr>
<td></td>
<td>VOR Rwy 17R</td>
</tr>
<tr>
<td>NA when local weather not available.</td>
<td></td>
</tr>
<tr>
<td>¹NA when control tower closed.</td>
<td></td>
</tr>
<tr>
<td>²ILS, Category E, 700-2½; LOC, Category E, 800-2½.</td>
<td></td>
</tr>
<tr>
<td><strong>GRAND MARAIS, MN</strong></td>
<td></td>
</tr>
<tr>
<td>GRAND MARAIS/ COOK COUNTY (CKC)</td>
<td>RNAV (GPS) Rwy 10</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 28¹</td>
</tr>
<tr>
<td>Category D, 900-2½.</td>
<td></td>
</tr>
<tr>
<td>¹NA when local weather not available.</td>
<td></td>
</tr>
<tr>
<td><strong>GRAND RAPIDS, MN</strong></td>
<td></td>
</tr>
<tr>
<td>GRAND RAPIDS/ITASCA COUNTY-GORDON NEWSTROM FIELD (GPZ)</td>
<td>ILS or LOC Rwy 34</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 16</td>
</tr>
<tr>
<td></td>
<td>VOR Rwy 34</td>
</tr>
<tr>
<td>NA when local weather not available.</td>
<td></td>
</tr>
<tr>
<td>NAME</td>
<td>ALTERNATE Minimums</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>GRANITE FALLS, MN</td>
<td>GRANITE FALLS MUNI/LENNEN-ROE-FAGEN MEMORIAL FIELD (GDB) RNAV (GPS) Rwy 33, VOR/DME Rwy 33 NA when local weather not available.</td>
</tr>
<tr>
<td>GWINNER, ND</td>
<td>GWINNER-ROGER MELROE FIELD (GWR) RNAV (GPS) Rwy 16 RNAV (GPS) Rwy 34 NA when local weather not available. Category D, 800-2½.</td>
</tr>
<tr>
<td>HASSON, ND</td>
<td>MERCER COUNTY RGNL (HZE) RNAV (GPS) Rwy 14 RNAV (GPS) Rwy 32 NA when local weather not available.</td>
</tr>
<tr>
<td>HETTINGER, ND</td>
<td>HETTINGER MUNI (HEI) RNAV (GPS) Rwy 12 RNAV (GPS) Rwy 30 Category D, 800-2¼.</td>
</tr>
<tr>
<td>HIBBING, MN</td>
<td>RGNL (HIB) ILS OR LOC/DME Rwy 13 ILS, Categories A, B, C, D, 800-2.</td>
</tr>
<tr>
<td>HURON, SD</td>
<td>HURON RGNL (HON) ILS or LOC Rwy 12 LOC/DME BC Rwy 30 RNAV (GPS) Rwy 12 RNAV (GPS) Rwy 30 VOR Rwy 12 NA when local weather not available. 1ILS, Category D, 700-2¼. LOC, Category D, 800-2½. 2Category D, 800-2¼.</td>
</tr>
<tr>
<td>HUTCHINSON, MN</td>
<td>HUTCHINSON MUNI-BUTLER FIELD (HCD) RNAV (GPS) Rwy 15 NA when local weather not available.</td>
</tr>
<tr>
<td>INTERNATIONAL FALLS, MN</td>
<td>FALLS INTL-EINARSON FIELD (INL) COPTER ILS or LOC Rwy 31 ILS or LOC/DME Rwy 13, 700-2 RNAV (GPS) Rwy 13 RNAV (GPS) Rwy 31 VOR Rwy 13 NA when local weather not available. 1LOC, NA; ILS, NA when local weather not available. 2NA when local weather not available. 3Category D, 800-2¼.</td>
</tr>
<tr>
<td>JAMESTOWN, ND</td>
<td>JAMESTOWN RGNL (JMS) RNAV (GPS) Rwy 4 RNAV (GPS) Rwy 13 RNAV (GPS) Rwy 22 RNAV (GPS) Rwy 31 VOR Rwy 13 VOR Rwy 31 Category D, 800 2½.</td>
</tr>
<tr>
<td>LANGDON, ND</td>
<td>ROBERTSON FIELD (D55) RNAV (GPS) Rwy 14 RNAV (GPS) Rwy 32 NA when local weather not available.</td>
</tr>
<tr>
<td>LONG PRAIRIE, MN</td>
<td>TODD FIELD (14Y) RNAV (GPS) Rwy 34 NA when local weather not available.</td>
</tr>
<tr>
<td>LONGVILLE, MN</td>
<td>LONGVILLE MUNI (XVG) RNAV (GPS) Rwy 13 RNAV (GPS) Rwy 31 NA when local weather not available.</td>
</tr>
<tr>
<td>LITCHFIELD, MN</td>
<td>LITCHFIELD MUNI (LJF) RNAV (GPS) Rwy 13 RNAV (GPS) Rwy 31 VOR-A Category D, 800-2¼. NA when local weather not available.</td>
</tr>
<tr>
<td>LITTLE FALLS, MN</td>
<td>LITTLE FALLS/MORRISON COUNTY-LINDBERGH FIELD (LXL) RNAV (GPS) Rwy 31 NA when local weather not available.</td>
</tr>
<tr>
<td>LINTON, ND</td>
<td>LINTON MUNI (7L2) RNAV (GPS) Rwy 9 RNAV (GPS) Rwy 27 NA when local weather not available.</td>
</tr>
<tr>
<td>NAME</td>
<td>ALTERNATE MINIMUMS</td>
</tr>
<tr>
<td>---------------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td><strong>ALTERNATE MINS</strong></td>
<td></td>
</tr>
<tr>
<td><strong>NAME</strong></td>
<td><strong>ALTERNATE MINIMUMS</strong></td>
</tr>
<tr>
<td><strong>MDADISON, MN</strong></td>
<td><strong>NAME</strong></td>
</tr>
<tr>
<td>LAC QUI PARLE COUNTY (DXX)</td>
<td>RNAV (GPS) Rwy 14</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available</td>
</tr>
<tr>
<td><strong>MDADISON, SD</strong></td>
<td>RNAV (GPS) Rwy 15</td>
</tr>
<tr>
<td>MADISON MUNI (MDS)</td>
<td>NA when local weather not available</td>
</tr>
<tr>
<td><strong>MAHNOMEN, MN</strong></td>
<td>RNAV (GPS) Rwy 17</td>
</tr>
<tr>
<td>MAHOMEN COUNTY (3N8)</td>
<td>NA when local weather not available</td>
</tr>
<tr>
<td><strong>MANDAN, ND</strong></td>
<td>RNAV (GPS) Rwy 13</td>
</tr>
<tr>
<td>MANDAN MUNI (Y19)</td>
<td>VOR-A</td>
</tr>
<tr>
<td><strong>MANKATO, MN</strong></td>
<td>RNAV (GPS) Rwy 33</td>
</tr>
<tr>
<td>MANKATO RGNL (MKT)</td>
<td>NA when local weather not available</td>
</tr>
<tr>
<td><strong>MARSHALL, MN</strong></td>
<td>RNAV (GPS) Rwy 12</td>
</tr>
<tr>
<td>SOUTHWEST MINNESOTA RGNL</td>
<td>NA when local weather not available</td>
</tr>
<tr>
<td><strong>MINNEAPOLIS, MN (CON’T)</strong></td>
<td><strong>NAME</strong></td>
</tr>
<tr>
<td>FLYING CLOUD</td>
<td>COPTER ILS or LOC Rwy 10R</td>
</tr>
<tr>
<td>(FCM)</td>
<td>RNAV (GPS) Rwy 14</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 32</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available</td>
</tr>
<tr>
<td><strong>MINNEAPOLIS-ST. PAUL INTL/WOLD-</strong></td>
<td><strong>NAME</strong></td>
</tr>
<tr>
<td>CHAMBERLAIN (MSP)</td>
<td>ILS or LOC Rwy 30L</td>
</tr>
<tr>
<td></td>
<td>ILS or LOC Rwy 12R</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 15</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Z Rwy 31</td>
</tr>
<tr>
<td></td>
<td>VOR Rwy 15</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available</td>
</tr>
<tr>
<td><strong>MINOT, ND</strong></td>
<td>RNAV (GPS) Rwy 8</td>
</tr>
<tr>
<td>MINOT INTL (MOT)</td>
<td>RNAV (GPS) Rwy 8</td>
</tr>
<tr>
<td></td>
<td>LOC BC Rwy 13</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 8</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 26</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Z Rwy 31</td>
</tr>
<tr>
<td></td>
<td>1NA when local weather not available</td>
</tr>
<tr>
<td></td>
<td>1ILS, Category C, 700-2; Category D, 900-2½; Category E, 1000-3; LOC, Category D, 900-2½; Category E, 1000-3.</td>
</tr>
<tr>
<td></td>
<td>2Category D, 900-2¾; Category E, 1000-3.</td>
</tr>
<tr>
<td></td>
<td>3Categories A, B, 1100-2; Categories C, D, 1100-3.</td>
</tr>
<tr>
<td></td>
<td>4Categories A, B, 900-2½; Category C, 900-2½; Category D, 900-2¾.</td>
</tr>
</tbody>
</table>

1Category D, 800-2½.
2NA when local weather not available.

CRSTAL (MIC)................RNAV (GPS) Rwy 14L
NA when local weather not available.
<table>
<thead>
<tr>
<th>NAME</th>
<th>ALTERNATE MINIMUMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MITCHELL, SD</td>
<td>MITCHELL MUNI (MHE)…….RNAV (GPS) Rwy 13 RNAV (GPS) Rwy 18 RNAV (GPS) Rwy 31 RNAV (GPS) Rwy 36 VOR Rwy 13 NA when local weather not available.</td>
</tr>
<tr>
<td>MOBRIDGE, SD</td>
<td>MOBRIDGE MUNI (MBG)…….RNAV (GPS) Rwy 12 RNAV (GPS) Rwy 30 NA when local weather not available Category D, 900-2½.</td>
</tr>
<tr>
<td>MONTEVIDEO, MN</td>
<td>MONTEVIDEO-CHIPPEWA COUNTY (MVE)…………RNAV (GPS) Rwy 14 RNAV (GPS) Rwy 32 NA when local weather not available</td>
</tr>
<tr>
<td>MOORHEAD, MN</td>
<td>MOORHEAD MUNI (JKJ)…………RNAV (GPS) Rwy 30¹ VOR-A² ¹NA when local weather not available. ²Categories A, B, 900-2;</td>
</tr>
<tr>
<td>MORA, MN</td>
<td>MORA MUNI (JMR)…….RNAV (GPS) Rwy 35 NA when local weather not available. Category D, 800-2¼.</td>
</tr>
<tr>
<td>MORRIS, MN</td>
<td>MORRIS MUNI-CHARLIE SCHMIDT FLD (MOX)…………RNAV (GPS) Rwy 14 RNAV (GPS) Rwy 32 NA when local weather not available.</td>
</tr>
<tr>
<td>ORR, MN</td>
<td>ORR RGNL (ORB)…….RNAV (GPS) Rwy 13 NA when local weather not available.</td>
</tr>
<tr>
<td>ORTONVILLE, MN</td>
<td>ORTONVILLE MUNI-MARTINSON FIELD (VVV)…………RNAV (GPS) Rwy 34 NA when local weather not available.</td>
</tr>
<tr>
<td>OWATONNA, MN</td>
<td>OWATONNA DEGNER RGNL (OWA)…………RNAV (GPS) Rwy 12 RNAV (GPS) Rwy 30¹ NA when local weather not available. ¹Category D, 800-2¼.</td>
</tr>
<tr>
<td>PARK RAPIDS, MN</td>
<td>PARK RAPIDS MUNI-KONSHOK FIELD (PKD)…………RNAV (GPS) Rwy 13 RNAV (GPS) Rwy 31 NA when local weather not available. Category D, 1100-3.</td>
</tr>
<tr>
<td>PAYNESVILLE, MN</td>
<td>PAYNESVILLE MUNI (PEX)…………RNAV (GPS) Rwy 11 RNAV (GPS) Rwy 29 NA when local weather not available.</td>
</tr>
<tr>
<td>PHILIP, SD</td>
<td>PHILIP (PHP)…………RNAV (GPS) Rwy 12 RNAV (GPS) Rwy 30 VOR-A NA when local weather not available.</td>
</tr>
<tr>
<td>PIERRE, SD</td>
<td>PIERRE RGNL (PIR)………….ILS or LOC Rwy 31¹ RNAV (GPS) Rwy 31² NA when local weather not available. ¹LOC, Category D, 800-2¼. ²Category D, 800-2¼.</td>
</tr>
<tr>
<td>PINE RIVER, MN</td>
<td>PINE RIVER RGNL (PWC)………….NDB Rwy 34 NA when local weather not available. Categories A, B, 900-2; Category C, 900-2½.</td>
</tr>
<tr>
<td>PIPESTONE, MN</td>
<td>PIPESTONE MUNI (PQN)…………RNAV (GPS) Rwy 18 RNAV (GPS) Rwy 36 NA when local weather not available.</td>
</tr>
<tr>
<td>PRESTON, MN</td>
<td>PRESTON FILLMORE COUNTY (FKA)…………RNAV (GPS) Rwy 11 RNAV (GPS) Rwy 29 NA when local weather not available.</td>
</tr>
<tr>
<td>NAME</td>
<td>ALTERNATE MINIMUMS</td>
</tr>
<tr>
<td>-----------------------</td>
<td>----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>RAPID CITY, SD</td>
<td></td>
</tr>
<tr>
<td>RAPID CITY</td>
<td></td>
</tr>
<tr>
<td>RGNL (RAP)</td>
<td>ILS or LOC Rwy 32(^1)</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 5(^2)</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 14(^{23})</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 23(^3)</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 32(^4)</td>
</tr>
<tr>
<td></td>
<td>VOR or TACAN Rwy 14(^{24})</td>
</tr>
<tr>
<td></td>
<td>VOR or TACAN Rwy 32(^{24})</td>
</tr>
<tr>
<td></td>
<td>1) ILS, Categories B, C, 700-2; Category D, 800-2%; Category E, 800-2%.</td>
</tr>
<tr>
<td></td>
<td>2) RNAV (GPS) Rwy 5(^2)</td>
</tr>
<tr>
<td></td>
<td>3) RNAV (GPS) Rwy 14(^{23})</td>
</tr>
<tr>
<td></td>
<td>4) RNAV (GPS) Rwy 23(^3)</td>
</tr>
<tr>
<td></td>
<td>5) RNAV (GPS) Rwy 32(^4)</td>
</tr>
<tr>
<td></td>
<td>6) VOR or TACAN Rwy 14(^{24})</td>
</tr>
<tr>
<td></td>
<td>7) VOR or TACAN Rwy 32(^{24})</td>
</tr>
<tr>
<td></td>
<td>2) NA when local weather not available.</td>
</tr>
<tr>
<td></td>
<td>3) Category D, 800-2%; Category E, 800-2%.</td>
</tr>
<tr>
<td></td>
<td>4) Category D, 800-2%; Category E, 800-2%.</td>
</tr>
<tr>
<td></td>
<td>5) NA when local weather not available.</td>
</tr>
<tr>
<td></td>
<td>6) Category D, 800-2%; Category E, 800-2%.</td>
</tr>
<tr>
<td></td>
<td>7) NA when local weather not available.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>RED WING, MN</td>
<td></td>
</tr>
<tr>
<td>RED WING</td>
<td></td>
</tr>
<tr>
<td>RGNL (RGK)</td>
<td>RNAV (GPS) Rwy 9(^{1})</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 27(^2)</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available.</td>
</tr>
<tr>
<td></td>
<td>1) Category C, 800-2%; Category D, 800-2%.</td>
</tr>
<tr>
<td></td>
<td>2) Category C, 800-2%.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>REDWOOD FALLS, MN</td>
<td></td>
</tr>
<tr>
<td>REDWOOD FALLS</td>
<td></td>
</tr>
<tr>
<td>MUNI (RWF)</td>
<td>RNAV (GPS) Rwy 30(^{1})</td>
</tr>
<tr>
<td></td>
<td>VOR-A</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>ROCHESTER, MN</td>
<td></td>
</tr>
<tr>
<td>ROCHESTER</td>
<td></td>
</tr>
<tr>
<td>INTL (RST)</td>
<td>ILS or LOC Rwy 13(^{1})</td>
</tr>
<tr>
<td></td>
<td>ILS Z or LOC Z Rwy 31(^{1})</td>
</tr>
<tr>
<td></td>
<td>COPER ILS Y or LOC Y Rwy 31(^{1})</td>
</tr>
<tr>
<td></td>
<td>NA when control tower closed.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>ROLLA, ND</td>
<td></td>
</tr>
<tr>
<td>ROLLA MUNI (06D)</td>
<td>RNAV (GPS) Rwy 32(^{1})</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available.</td>
</tr>
<tr>
<td></td>
<td>Category D, 900-2%.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>ROSEAU, MN</td>
<td></td>
</tr>
<tr>
<td>ROSEAU MUNI/RUDY BILLBERG</td>
<td>RNAV (GPS) Rwy 16(^{1})</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 34(^{1})</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>RUGBY, ND</td>
<td></td>
</tr>
<tr>
<td>RUGBY MUNI (RUG)</td>
<td>RNAV (GPS) Rwy 30(^{1})</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>RUSH CITY, MN</td>
<td></td>
</tr>
<tr>
<td>RUSH CITY</td>
<td></td>
</tr>
<tr>
<td>RGNL (ROS)</td>
<td>RNAV (GPS) Rwy 34(^{1})</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>ST. CLOUD, MN</td>
<td></td>
</tr>
<tr>
<td>ST. CLOUD</td>
<td></td>
</tr>
<tr>
<td>RGNL (STC)</td>
<td>ILS or LOC/DMR Rwy 13(^{123})</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 5(^{1})</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 13(^{1})</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 23(^{1})</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 31(^{1})</td>
</tr>
<tr>
<td></td>
<td>VOR Rwy 31(^{3})</td>
</tr>
<tr>
<td></td>
<td>1) NA when local weather not available.</td>
</tr>
<tr>
<td></td>
<td>2) ILS, Categories A, B, C, D, 700-2.</td>
</tr>
<tr>
<td></td>
<td>3) NA when control tower closed.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>ST. JAMES, MN</td>
<td></td>
</tr>
<tr>
<td>ST. JAMES</td>
<td></td>
</tr>
<tr>
<td>MUNI (JYG)</td>
<td>RNAV (GPS) Rwy 15(^{1})</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 33(^{1})</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>ST. PAUL, MN</td>
<td></td>
</tr>
<tr>
<td>ST. PAUL DOWNTOWN HOLMAN</td>
<td>ILS or LOC Rwy 14(^{12})</td>
</tr>
<tr>
<td></td>
<td>ILS or LOC Rwy 32(^{12})</td>
</tr>
<tr>
<td></td>
<td>NDB Rwy 31(^{3})</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 14(^{4})</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 32(^{4})</td>
</tr>
<tr>
<td></td>
<td>1) NA when control tower closed.</td>
</tr>
<tr>
<td></td>
<td>2) LOC, Categories A, B, 900-2; Category C, 900-2%; Category D, 900-2%.</td>
</tr>
<tr>
<td></td>
<td>3) Category A, B, 900-2; Category C, 900-2%; Category D, 900-3.</td>
</tr>
<tr>
<td></td>
<td>4) Categories A, B, 900-2; Category C, 900-2%; Category D, 900-2%.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>SAUK CENTRE, MN</td>
<td></td>
</tr>
<tr>
<td>SAUK CENTRE</td>
<td></td>
</tr>
<tr>
<td>MUNI (D39)</td>
<td>RNAV (GPS) Rwy 14(^{1})</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 32(^{1})</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>SIOUX FALLS, SD</td>
<td></td>
</tr>
<tr>
<td>JOE FOSS</td>
<td></td>
</tr>
<tr>
<td>FIELD (FSD)</td>
<td>ILS or LOC Rwy 3(^{12})</td>
</tr>
<tr>
<td></td>
<td>ILS or LOC Rwy 21(^{12})</td>
</tr>
<tr>
<td></td>
<td>RADAR-1(^{3})</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 3(^{4})</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 15(^{5})</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 21(^{4})</td>
</tr>
<tr>
<td></td>
<td>VOR or TACAN Rwy 15(^{5})</td>
</tr>
<tr>
<td></td>
<td>VOR/DME or TACAN Rwy 33(^{5})</td>
</tr>
<tr>
<td></td>
<td>1) NA when control tower closed.</td>
</tr>
<tr>
<td></td>
<td>2) LOC, Category D, 800-2%.</td>
</tr>
<tr>
<td></td>
<td>3) Category E, 800-2%.</td>
</tr>
<tr>
<td></td>
<td>4) Category D, 800-2%.</td>
</tr>
<tr>
<td></td>
<td>5) Category C, 800-2%; Category D, 800-2%.</td>
</tr>
<tr>
<td></td>
<td>6) Category D, 800-2%; Category E, 900-3.</td>
</tr>
<tr>
<td>NAME</td>
<td>ALTERNATE MINIMUMS</td>
</tr>
<tr>
<td>----------------------</td>
<td>----------------------------------------</td>
</tr>
<tr>
<td>SLAYTON, MN</td>
<td>SLAYTON MUNI (DVP) Rwy 17 RNAV (GPS) Rwy 35</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available.</td>
</tr>
<tr>
<td>SOUTH ST. PAUL, MN</td>
<td>SOUTH ST. PAUL MUNI-RICHARD E FLEMING FIELD (SGS) RNAV (GPS) Rwy 34</td>
</tr>
<tr>
<td></td>
<td>Category D, 800-2%.</td>
</tr>
<tr>
<td>SPEARFISH, SD</td>
<td>BLACK HILLS-CLYDE ICE FIELD (SPF) RNAV (GPS) Rwy 13 1</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 31 2</td>
</tr>
<tr>
<td></td>
<td>1Categories A, B, 1000-4, Category C, 1700-4.</td>
</tr>
<tr>
<td></td>
<td>2Categories A, B, 1000-2, Category C, 1700-3.</td>
</tr>
<tr>
<td>STAPLES, MN</td>
<td>STAPLES MUNI (SAZ) RNAV (GPS) Rwy 14</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 32</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available.</td>
</tr>
<tr>
<td>THIEF RIVER FALLS, MN</td>
<td>THIEF RIVER FALLS RGNL (TVF) ILS or LOC Rwy 31 1</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 13 2</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 22 2</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 31 2</td>
</tr>
<tr>
<td></td>
<td>VOR Y Rwy 13 3</td>
</tr>
<tr>
<td></td>
<td>VOR Rwy 31 3</td>
</tr>
<tr>
<td></td>
<td>1LOC, Category D, 900-2¼.</td>
</tr>
<tr>
<td></td>
<td>2NA when local weather not available.</td>
</tr>
<tr>
<td></td>
<td>3Category D, 900-2¼.</td>
</tr>
<tr>
<td>TIOGA, ND</td>
<td>TIOGA MUNI (D60) RNAV (GPS) Rwy 12</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 30 1</td>
</tr>
<tr>
<td></td>
<td>Category D, 800-2¼.</td>
</tr>
<tr>
<td></td>
<td>1NA when local weather not available.</td>
</tr>
<tr>
<td>TWO HARBORS, MN</td>
<td>RICHARD B. HELGESON (TWM) RNAV (GPS) Rwy 6</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 24</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available.</td>
</tr>
<tr>
<td>VALLEY CITY, ND</td>
<td>BARNES COUNTY MUNI (BAC) RNAV (GPS) Rwy 13</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 31</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available.</td>
</tr>
<tr>
<td>WADENA, MN</td>
<td>WADENA MUNI (ADC) RNAV (GPS) Rwy 16</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 34</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available.</td>
</tr>
<tr>
<td>WAHPETON, ND</td>
<td>HARRY STERN (BWP) RNAV (GPS) Rwy 33</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available.</td>
</tr>
<tr>
<td>WALKER, MN</td>
<td>WALKER MUNI (Y49) RNAV (GPS) Rwy 15</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 33</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available.</td>
</tr>
<tr>
<td></td>
<td>Category C, 800-2¼.</td>
</tr>
<tr>
<td>WARROAD, MN</td>
<td>WARROAD INTL MEMORIAL (RRT) RNAV (GPS) Rwy 13</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 31</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available.</td>
</tr>
<tr>
<td></td>
<td>Category C, 900-2¼; Category D, 900-3.</td>
</tr>
<tr>
<td>WASECA, MN</td>
<td>WASECA MUNI (ACQ) RNAV (GPS) Rwy 15</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) RWy 33</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available.</td>
</tr>
<tr>
<td>WATERTOWN, SD</td>
<td>WATERTOWN RGNL (ATY) ILS or LOC Rwy 35 12</td>
</tr>
<tr>
<td></td>
<td>LOC BC Rwy 17 2</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 12</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 17 13</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 30 13</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 35 13</td>
</tr>
<tr>
<td></td>
<td>VOR or TACAN Rwy 17 13</td>
</tr>
<tr>
<td></td>
<td>1NA when local weather not available.</td>
</tr>
<tr>
<td></td>
<td>2LOC, Category C, 800-2¼; Category D, 800-2½.</td>
</tr>
<tr>
<td></td>
<td>3Category C, 800-2¼; Category D, 800-2½.</td>
</tr>
<tr>
<td>WHEATON, MN</td>
<td>WHEATON MUNI (ETH) RNAV (GPS) Rwy 16</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 34</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available.</td>
</tr>
<tr>
<td>WILLISTON, ND</td>
<td>WILLISTON BASIN INTL (XWA) RNAV (GPS) Rwy 14</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 32</td>
</tr>
<tr>
<td></td>
<td>VOR Rwy 14</td>
</tr>
<tr>
<td></td>
<td>VOR Rwy 32</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available.</td>
</tr>
<tr>
<td>WILLMAR, MN</td>
<td>WILLMAR MUNI-JOHN L RICE FIELD (BDH) RNAV (GPS) Rwy 13</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 31</td>
</tr>
<tr>
<td></td>
<td>VOR Rwy 31 1</td>
</tr>
<tr>
<td></td>
<td>1Category D, 800-2¼.</td>
</tr>
<tr>
<td>NAME</td>
<td>ALTERNATE MINIMUMS</td>
</tr>
<tr>
<td>------------------</td>
<td>--------------------------------------------------------</td>
</tr>
<tr>
<td>WINNER, SD</td>
<td>WINNER RGNL (ICR)....................................RNAV (GPS) Rwy 13</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available.</td>
</tr>
<tr>
<td>WINONA, MN</td>
<td>WINONA MUNI-MAX CONRAD FIELD (ONA)........................ILS Y or LOC Y Rwy 30¹²</td>
</tr>
<tr>
<td></td>
<td>ILS Z or LOC Z Rwy 30¹³</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 30¹</td>
</tr>
<tr>
<td></td>
<td>¹NA when local weather not available.</td>
</tr>
<tr>
<td></td>
<td>²ILS, LOC, Categories A, B, 1000-2; Category C,</td>
</tr>
<tr>
<td></td>
<td>1200-3; Category D, 1400-3.</td>
</tr>
<tr>
<td></td>
<td>³LOC, Category A, B, 1000-2; Category C, 1200-3;</td>
</tr>
<tr>
<td></td>
<td>⁴Categories A, B, 1000-2; Category C, 1200-3;</td>
</tr>
<tr>
<td>WORTHINGTON, MN</td>
<td>WORTHINGTON MUNI (OTG)...................................RNAV (GPS) Rwy 11²</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 18²</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 36²</td>
</tr>
<tr>
<td></td>
<td>VOR Rwy 11¹</td>
</tr>
<tr>
<td></td>
<td>¹Category D, 800-2½.</td>
</tr>
<tr>
<td></td>
<td>²NA when local weather not available.</td>
</tr>
<tr>
<td>YANKTON, SD</td>
<td>YANKTON MUNI-GURNEY MUNI (YKN)..............................RNAV (GPS) Rwy 13</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 31</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available.</td>
</tr>
</tbody>
</table>
**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)**

**IFR TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

Civil Airports and Selected Military Airports

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

**ABERDEEN, SD**

ABERDEEN RGNL (ABR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 02MAR17 (17061) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 13**, 4' from DER, 1' right of centerline, 1' AGL/1302' MSL. Sign 12' from DER, 256' left of centerline, 4' AGL/1302' MSL.

**Rwy 31**, runway end ident, beginning 39' from DER, 125' right of centerline, up to 5' AGL/1304' MSL. Runway end ident 40' from DER, 126' left of centerline, 5' AGL/1303' MSL. Tree 127' from DER, 745' left of centerline, 1351' MSL. Tree 1309' from DER, 716' left of centerline, 1352' MSL.

**ADA/TWIN VALLEY, MN**

NORMAN COUNTY ADA/TWIN VALLEY (D00)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 13JAN11 (11013) (FAA)

TAKEOFF MINIMUMS:

**Rwy 15**, 300-2 or std, w/min climb of 205' per NM to 1300, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1300' prior to DER.

TAKEOFF OBSTACLE NOTES:

**Rwy 15**, tree 176' from DER 383' left of centerline, 50' AGL/999' MSL. Tree 176' from DER 307' right of centerline, 50' AGL/999' MSL. Tree 1,305' from DER 493' right of centerline, 50' AGL/1,004' MSL. Tree 176' from DER 383' left of centerline, 50' AGL/999' MSL. Tree 176' from DER 282' left of centerline, 50' AGL/999' MSL. Multiple buildings beginning 2' from DER 468' right of centerline. up to 50' AGL/954' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

AITKIN, MN

AITKIN MUNI-STEVE KURTZ FIELD (AIT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4  20AUG15  (15232)  (FAA)

DEPARTURE PROCEDURE:
Rwy 8, 26, NA-Environmental.

TAKEOFF OBSTACLE NOTES:
Rwy 16, trees beginning 6' from DER, 86' left of centerline, up to 32' AGL/1238' MSL.
Trees and road beginning 239' from DER, 357' left of centerline, up to 59' AGL/1265' MSL.
Trees beginning 335' from DER, 114' right of centerline, up to 54' AGL/1260' MSL.
Trees beginning 1352' from DER, 189' left of centerline, up to 94' AGL/1300' MSL.
Trees beginning 1759' from DER, 5' right of centerline, up to 93' AGL/1299' MSL.
Trees beginning 3334' from DER, 16' left of centerline, up to 100' AGL/1332' MSL.
Trees beginning 3558' from DER, 48' right of centerline, up to 100' AGL/1333' MSL.

Rwy 34, trees beginning 121' from DER, 406' right of centerline, up to 29' AGL/1235' MSL.

Rwy 23, trees beginning 1352' from DER, 189' left of centerline, up to 94' AGL/1300' MSL.
Trees beginning 1759' from DER, 5' right of centerline, up to 93' AGL/1299' MSL.

Rwy 35, trees beginning 8' from DER, 397' right of centerline, up to 51' AGL/1290' MSL.

ALBERT LEA, MN

ALBERT LEA MUNI (AEL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1  20OCT11  (11293)  (FAA)

TAKEOFF OBSTACLE NOTES:
Rwy 5, sign 2074' from DER, 952' right of centerline, 47' AGL/1316' MSL.
Rwy 17, tree 9' from DER, 349' right of centerline, 14' AGL/1263' MSL.
Trees beginning 711' from DER, 121' left of centerline, up to 71' AGL/1330' MSL.

Rwy 23, trees beginning 77' from DER, 259' left of centerline, up to 75' AGL/1324' MSL.
Trees beginning 127' from DER, 326' right of centerline, up to 36' AGL/1285' MSL.

Rwy 35, trees beginning 8' from DER, 397' right of centerline, up to 51' AGL/1290' MSL.

ALEXANDRIA, MN

CHANDLER FIELD (AXN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

DEPARTURE PROCEDURE:
Rwys 4, 13, 22, when weather is below 200-1, climb runway heading to 1800 before turning.

APPLETON, MN

APPLETON MUNI (AQP)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG  06MAY10  (10126)  (FAA)

DEPARTURE PROCEDURE:
Rwy 4, climb heading 039° to 2000 before turning right.
Rwy 13, climb heading 130° to 2500 before turning right.
Rwy 22, climb heading 219° to 2400 before turning left.
Rwy 31, climb heading 300° to 2000 before turning left.

TAKEOFF OBSTACLE NOTES:
Rwy 13, trees beginning 91' from DER, 464' left of centerline, up to 100' AGL/1134' MSL.
Trees beginning 576' from DER, 388' right of centerline, up to 100' AGL/1120' MSL.
Tower 2.3 NM from DER, 2.4 right of centerline, 1283' AGL/2318' MSL.

AUSTIN, MN

AUSTIN MUNI (AUM)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG  14FEB08  (08045)  (FAA)

TAKEOFF OBSTACLE NOTES:
Rwy 17, Multiple trees beginning 809' from DER, 663' right of centerline, up to 61' AGL/1285' MSL.
Rwy 35, Tree 1380' from DER, 484' right of centerline, 100' AGL/1314' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

BEACH, ND

BEACH (20U)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 21JUL16 (16203) (FAA)
DEPARTURE PROCEDURE:
Rwy 12, climb heading 125° to 4000 before turning left.

TAKEOFF OBSTACLE NOTES:
Rwy 12, airfield lt 9' from DER, 2749' MSL.
Vehicles on road beginning 39' from DER, 371' right of centerline, up to 2764' MSL.
Terrain 95' from DER, 416' left of centerline, 2751' MSL.
Vehicles on road beginning 444' from DER, 379' right of centerline, up to 2766' MSL.
Vehicle on road 1237' from DER, 198' left of centerline, 2781' MSL.
Vehicle on road 1276' from DER, 226' left of centerline, 2782' MSL.
Vehicles on road beginning 1326' from DER, 273' left of centerline, up to 2785' MSL.
Vehicle on road 1474' from DER, 418' left of centerline, 2786' MSL.
Vehicles on road, tree, and building beginning 1671' from DER, 664' left of centerline, up to 2808' MSL.
Rwy 30, airfield lt beginning 10' from DER, 9' right of centerline, up to 1' AGL/2757' MSL.

BAUDETTE, MN

BAUDETTE INTL (BDE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 20JUN19 (19171) (FAA)
TAKEOFF MINIMUMS:
Rwys 13W, 31W, NA - Environmental.
DEPARTURE PROCEDURE:
Rwy 12, climb on heading 116° to 1700 before turning northbound.

TAKEOFF OBSTACLE NOTES:
Rwy 12, tree, pole beginning 5' from DER, 30' left of centerline, up to 1085' MSL.
General utility 61' from DER, 353' right of centerline, 5' AGL/1086' MSL.
Tree, vehicles on road beginning 424' from DER, 60' right of centerline, up to 1116' MSL.
Trees beginning 503' from DER, 538' right of centerline, up to 1121' MSL.
Tree 594' from DER, 139' left of centerline, 1100' MSL.
Water tower, tank beginning 4131' from DER, 1229' right of centerline, up to 1204' MSL.
Rwy 30, lighting 9' from DER, 30' left of centerline, 3' AGL/1086' MSL.
NAVAID 9' from DER, 29' right of centerline, 2' AGL/1086' MSL.
Tree 15' from DER, 348' right of centerline, 1096' MSL.
Trees beginning 16' from DER, 498' right of centerline, up to 1098' MSL.
Tree 341' from DER, 516' right of centerline, 1102' MSL.
Tree 365' from DER, 550' right of centerline, 1106' MSL.
Vehicles on road 724' from DER, 675' left of centerline, 1103' MSL.
Trees beginning 1348' from DER, 745' right of centerline, up to 1129' MSL.
Trees beginning 1757' from DER, 746' left of centerline, up to 1138' MSL.
Trees beginning 1919' from DER, 129' left of centerline, up to 1142' MSL.
Trees beginning 1955' from DER, 357' left of centerline, up to 1144' MSL.
Trees beginning 2198' from DER, 84' left of centerline, up to 1145' MSL.
Tree 3008' from DER, 26' left of centerline, 1170' MSL.

BELLE FOURCHE, SD

BELLE FOURCHE MUNI (EFC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 15JAN09 (09015) (FAA)
TAKEOFF MINIMUMS:
Rwys 18,36, NA.
Rwy 14, std. w/ min. climb of 240' per NM to 9000 or 1400-3 for climb in visual conditions.
Rwy 32, std. w/ min. climb of 413' per NM to 3900.
DEPARTURE PROCEDURE:
Rwy 14, for climb in visual conditions: cross Belle Fourche Muni airport at or above 4400 MSL before proceeding on course.
Rwy 32, climb heading 321° to 3900 before proceeding southbound.
TAKEOFF OBSTACLE NOTES:
Rwy 14, trees 651' from DER, 547' left of centerline, up to 20' AGL/3299' MSL.
Rwy 32, trees 857' from DER, 150' left of centerline, up to 20' AGL/3199' MSL.
Trees 3880' from DER, 966' right of centerline, up to 20' AGL/3289' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

BEMIDJI, MN
BEMIDJI RGNL (BJI)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3  31JUL08  (08213)  (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 7, vegetation beginning 859' from DER, 544' right of centerline, up to 62' AGL/1442' MSL.
Vegetation beginning 1404' from DER, 683' left of centerline, up to 44' AGL/1424' MSL.
Rwy 13, vehicle on road, 541' from DER, 525' right of centerline, 15' AGL/1398' MSL.
Rwy 25, poles beginning 1337' from DER, 205' right of centerline up to 61' AGL/1445' MSL.
Trees beginning 1414' from DER, 254' left of centerline, up to 57' AGL/1441' MSL.
Tree 1406' from DER, 233' right of centerline, 53' AGL/1437' MSL.

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3  31JUL08  (08213)  (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 7, vegetation beginning 859' from DER, 544' right of centerline, up to 62' AGL/1442' MSL.
Vegetation beginning 1404' from DER, 683' left of centerline, up to 44' AGL/1424' MSL.
Rwy 13, vehicle on road, 541' from DER, 525' right of centerline, 15' AGL/1398' MSL.
Rwy 25, poles beginning 1337' from DER, 205' right of centerline up to 61' AGL/1445' MSL.
Trees beginning 1414' from DER, 254' left of centerline, up to 57' AGL/1441' MSL.
Tree 1406' from DER, 233' right of centerline, 53' AGL/1437' MSL.

BENSON, MN
BENSON MUNI (BBB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1  07MAY09  (09127)  (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 14, numerous trees beginning 838' from DER, 246' right of centerline, up to 33' AGL/1087' MSL.
Numerous trees beginning 1232' from DER, 64' left of centerline, up to 69' AGL/1108' MSL.
Sign 206' from DER, 198' left of centerline, 19' AGL/1044' MSL.
Tower 4884' from DER, 274' right of centerline, 126' AGL/1161' MSL.
Rwy 32, Tree 2380' from DER, 646' left of centerline, 68' AGL/1107' MSL.

Rwy 15, climb on heading 149° to 1800 before turning right.

TAKEOFF OBSTACLE NOTES:
Rwy 15, sign 20' from DER, 115' left of centerline, 3' AGL/1348' MSL.
Tree 29' from DER, 326' right of centerline, 1354' MSL.
Trees beginning 63' from DER, 168' right of centerline, up to 1370' MSL.
Traverse way 67' from DER, 432' left of centerline, 1363' MSL.
Trees beginning 154' from DER, 393' left of centerline, up to 1378' MSL.
Trees beginning 189' from DER, 348' right of centerline, up to 1371' MSL.
Trees beginning 261' from DER, 413' left of centerline, up to 1379' MSL.
Tree 274' from DER, 292' right of centerline, 1374' MSL.
Tree 392' from DER, 556' left of centerline, 1387' MSL.
Trees beginning 393' from DER, 344' right of centerline, up to 1375' MSL.
Trees beginning 493' from DER, 177' right of centerline, up to 1396' MSL.
Tree 513' from DER, 604' left of centerline, 1417' MSL.
Trees beginning 556' from DER, 185' left of centerline, up to 1420' MSL.
Trees beginning 580' from DER, 272' right of centerline, up to 1403' MSL.
Tree 957' from DER, 679' right of centerline, 1407' MSL.
Trees beginning 996' from DER, 123' right of centerline, up to 1414' MSL.
Trees beginning 2109' from DER, 539' right of centerline, up to 1423' MSL.
Trees beginning 2698' from DER, 448' right of centerline, up to 1434' MSL.
Trees beginning 2800' from DER, 93' right of centerline, up to 1442' MSL.
Trees beginning 3374' from DER, 519' right of centerline, up to 1444' MSL.
Rwy 33, tree 56' from DER, 374' right of centerline, 1375' MSL.

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1  29MAR18  (18088)  (FAA)
DEPARTURE PROCEDURE:
Rwy 15, climb on heading 149° to 1800 before turning right.

TAKEOFF OBSTACLE NOTES:
Rwy 15, sign 20' from DER, 115' left of centerline, 3' AGL/1348' MSL.
Tree 29' from DER, 326' right of centerline, 1354' MSL.
Trees beginning 63' from DER, 168' right of centerline, up to 1370' MSL.
Traverse way 67' from DER, 432' left of centerline, 1363' MSL.
Trees beginning 154' from DER, 393' left of centerline, up to 1378' MSL.
Trees beginning 189' from DER, 348' right of centerline, up to 1371' MSL.
Trees beginning 261' from DER, 413' left of centerline, up to 1379' MSL.
Tree 274' from DER, 292' right of centerline, 1374' MSL.
Tree 392' from DER, 556' left of centerline, 1387' MSL.
Trees beginning 393' from DER, 344' right of centerline, up to 1375' MSL.
Trees beginning 493' from DER, 177' right of centerline, up to 1396' MSL.
Tree 513' from DER, 604' left of centerline, 1417' MSL.
Trees beginning 556' from DER, 185' left of centerline, up to 1420' MSL.
Trees beginning 580' from DER, 272' right of centerline, up to 1403' MSL.
Tree 957' from DER, 679' right of centerline, 1407' MSL.
Trees beginning 996' from DER, 123' right of centerline, up to 1414' MSL.
Trees beginning 2109' from DER, 539' right of centerline, up to 1423' MSL.
Trees beginning 2698' from DER, 448' right of centerline, up to 1434' MSL.
Trees beginning 2800' from DER, 93' right of centerline, up to 1442' MSL.
Trees beginning 3374' from DER, 519' right of centerline, up to 1444' MSL.
Rwy 33, tree 56' from DER, 374' right of centerline, 1375' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

BISMARCK, ND
BISMARCK MUNI (BIS)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 8 10MAR11 (11069) (FAA)
DEPARTURE PROCEDURE:
Rwy 13, climb heading 131° to 2400 before turning right.
Rwy 21, climb heading 212° to 3700 before turning left.
Rwy 31, climb heading 311° to 2200 before turning right.
TAKEOFF OBSTACLE NOTES:
Rwy 13, trees and pole beginning 864' from DER, 721' left of centerline, up to 56' AGL/1696' MSL.
Rwy 31, light pole 1424' from DER, 872' right of centerline, 43' AGL/1702' MSL.

BLUE EARTH, MN
BLUE EARTH MUNI (SBU)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 31MAR16 (16091) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 16, poles beginning 1017' from DER, 586' left of centerline, up to 32' AGL/1142' MSL.
Rwy 34, trees beginning 3407' from DER, 523' right of centerline, up to 100' AGL/1200' MSL.

BOTTINEAU, ND
BOTTINEAU MUNI (D09)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 03JUN10 (10154) (FAA)
Rwys 3, 21, NA.
DEPARTURE PROCEDURE:
Rwy 13, climb heading 127° to 2200 before turning left.
Rwy 31, climb heading 307° to 2600 before turning right.
TAKEOFF OBSTACLE NOTES:
Rwy 31, street light 116' from DER, 474' left of centerline, 16' AGL/1700' MSL.

BOWMAN, ND
BOWMAN RGNL (BWW)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 31MAR16 (16091) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 31, terrain beginning 18' from DER, 182' left of centerline, 2958' MSL.
Pole 2360' from DER, 395' right of centerline, 33' AGL/3005' MSL.

BRAINERD, MN
BRAINERD LAKES RGNL (BRD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 6 15NOV12 (12320) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 16, multiple trees beginning 1830' from DER, 749' left of centerline, up to 74' AGL/1314' MSL.
Rwy 23, multiple trees beginning 1485' from DER, 91' left of centerline, up to 50' AGL/1299' MSL.
Tree 2426' from DER, 184' right of centerline, 50' AGL/1297' MSL.
Rwy 34, trees beginning 1635' from DER, left and right of centerline, up to 86' AGL/1312' MSL.

BRITTON, SD
BRITTON MUNI (BTN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 10JAN13 (13010) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwys 1, 19, NA.
Rwy 13, trees, poles and terrain beginning 382' from DER, 9' right of centerline, up to 81' AGL/1439' MSL.
Trees, poles, vehicles on road and terrain beginning 1286' from DER, 17' left of centerline, up to 75' AGL/1449' MSL.
Rwy 31, trees and vehicles on road beginning 578' from DER, 185' right of centerline, up to 66' AGL/1375' MSL.
Tree and vehicles on road beginning 234' from DER, 413' left of centerline, up to 61' AGL/1370' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

BROOKINGS, SD
BROOKINGS RGNL (BKX)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 25JUN15 (15176) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 12, building 1297' from DER, 734' right of centerline, 38' AGL/1681' MSL.
Rwy 17, trees beginning 1219' from DER, 562' left of centerline, up to 82' AGL/1733' MSL.
Trees beginning 2097' from DER, 252' left of centerline, up to 62' AGL/1728' MSL.
Rwy 35, trees beginning 481' from DER, 407' right of centerline, up to 45' AGL/1641' MSL.
Railroad beginning 514' from DER, crossing centerline from right to left, 23' AGL/1626' MSL.
Trees 701' from DER, 216' left of centerline, 35' AGL/1631' MSL.

BUFFALO, MN
BUFFALO MUNI (CFE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 13JAN11 (11013) (FAA)
TAKEOFF MINIMUMS:
Rwy 18, 300-1½ or std. w/min climb of 403' per NM to 1200.
TAKEOFF OBSTACLE NOTES:
Rwy 18, building 613' from DER, 608' right of centerline, up to 25' AGL/ 984' MSL.
Vehicle on road 710' from DER, 641' right of centerline, up to 17' AGL/986' MSL.
Rwy 36, building 361' from DER, 262' left of centerline, up to 25' AGL/994' MSL.
Vehicle on road 845' from DER, 701' left of centerline, up to 15' AGL/994' MSL.
Trees beginning 1000' from DER, 615' left of centerline, up to 100' AGL/1059' MSL.
Rwy 36, building 481' from DER, 329' right of centerline, up to 13' AGL/958' MSL.
Trees beginning 1506' from DER, 350' right of centerline, up to 100' AGL/1089' MSL.
Trees beginning 1508' from DER, 129' left of centerline, up to 100' AGL/1109' MSL.

CAMBRIDGE, MN
CAMBRIDGE MUNI (CBG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 05APR12 (12096) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 16, navaid 38' from DER, 78' left of centerline, 2' AGL/941' MSL.
Poles beginning 1203' from DER, 140' left of centerline, up to 66' AGL/1007' MSL.
Navaid 40' from DER 81' right of centerline, 2' AGL/941' MSL.
Trees beginning 198' from DER, 8' left and right of centerline, up to 100' AGL/1011' MSL.
Fence post 176' from DER, 403' right of centerline, 8' AGL/947' MSL.
Trees on road 191' from DER, 431' right of centerline, up to 15' AGL/954' MSL.
Rwy 34, terrain beginning 167' from DER, 374' left of centerline, up to 95' AGL/1015' MSL.
Fence post 176' from DER, 481' left of centerline, 14' AGL/959' MSL.
Fence 615' from DER, 329' left of centerline, 13' AGL/958' MSL.
Trees beginning 498' from DER, 12' left and right of centerline, up to 100' AGL/1020' MSL.
Building 427' from DER, 538' right of centerline, 24' AGL/969' MSL.

CANBY, MN
MYERS FIELD (CNB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 29JUL10 (10210) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 12, numerous poles beginning 40' from DER, 421' left and right of centerline, up to 36' AGL/1216' MSL.
Tree on roads beginning 134' from DER, 374' left and right of centerline, up to 22' AGL/1202' MSL.
Tree 3' from DER, 159' right of centerline, 7' AGL/1187' MSL.
Rwy 30, numerous trees beginning 726' from DER, 176' left of centerline, up to 70' AGL/1278' MSL.
Tree 1338' from DER, 25' right of centerline, 68' AGL/1268' MSL.

CANDO, ND
CANDO MUNI (9D7)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 20AUG15 (15232) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 16, vehicles on road 443' from DER, 524' left of centerline, 15' AGL/1495' MSL.
Lt support structure 10' from DER, 10' right of centerline, 3' AGL/1484' MSL.
Rwy 34, poles beginning 382' from DER, 465' right of centerline, up to 32' AGL/1513' MSL.
Building 277' from DER, 574' right of centerline, 22' AGL/1503' MSL.
Vehicles on road beginning 596' from DER, 25' right of centerline, 15' AGL/1500' MSL.
Vehicles on road beginning 754' from DER, 16' left of centerline, 15' AGL/1504' MSL.
Lt support structure 10' from DER, 9' right of centerline, 3' AGL/1483' MSL.
Tank 344' from DER,470' right of centerline, 9' AGL/1490' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

CARRINGTON, ND
CARRINGTON MUNI (46D)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 27JUN13 (13178) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 13, trees beginning 2097' from DER, 314' left of centerline, up to 100' AGL/1676' MSL.
Rwy 31, terrain 60' from DER, 481' left of centerline, 1614' MSL.
Trees beginning 603' from DER, 341' left of centerline, up to 100' AGL/1709' MSL.

CASSELTON, ND
CASSELTON ROBERT MILLER RGNL (5N8)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 20DEC07 (07354) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 13, trees beginning 60' from DER, 505' right of centerline, 23' AGL/945' MSL.
Vehicle on road 449' from DER, 300' left of centerline, 15' AGL/949' MSL.
Rwy 31, trees 225' from DER, 456' left of centerline, up to 100' AGL/1052' MSL.

CAVALIER, ND
CAVALIER MUNI (2C8)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 20SEP12 (12264) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 16, trees beginning 83' from DER, 454' left of centerline, up to 77' AGL/963' MSL.
Trees beginning 751' from DER, 615' right of centerline, up to 47' AGL/1725' MSL.
Power pole 1116' from DER, 712' left of centerline, 32' AGL/1710' MSL.
Rwy 31, rising terrain 91' from DER, 290' right of centerline, 1702' MSL.
Vehicle on road 1072' from DER, from 553' to 781' right of centerline, 15' AGL/1728' MSL.
Trees left and right of centerline beginning 1359' from DER, up to 71' AGL/1767' MSL.
Pole 1201' from DER, 701' right of centerline, 45' AGL/1741' MSL.

CHAMBERLAIN, SD
CHAMBERLAIN MUNI (9V9)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 13DEC12 (12348) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 13, trees left and right of centerline beginning 100' from DER, up to 47' AGL/1725' MSL.
Pole 1116' from DER, 712' left of centerline, 32' AGL/1710' MSL.
Rwy 31, rising terrain 91' from DER, 290' right of centerline, 1702' MSL.
Vehicle on road 1072' from DER, from 553' to 781' right of centerline, 15' AGL/1728' MSL.
Trees left and right of centerline beginning 1359' from DER, up to 71' AGL/1767' MSL.
Pole 1201' from DER, 701' right of centerline, 45' AGL/1741' MSL.

CLARK, SD
CLARK COUNTY (8D7)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 17AUG17 (17229) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwys 3, 21, NA - Environmental.
Rwy 31, std. w/min climb of 287' per NM to 2500 or 1800-3 for VCOA or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1600' prior to DER.
DEPARTURE PROCEDURES:
Rwy 13, climb on heading 131° to 2900 before turning northeast.
Rwy 31, climb on heading 311° to 2600 before proceeding on course.
VCOA:
Rwy 31, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Clark County airport at or above 3400 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 13, fence 4' from DER, 346' right of centerline, 1791' MSL.
Tree 63' from DER, 475' right of centerline, 1796' MSL.
Tree 83' from DER, 262' left of centerline, 1797' MSL.
Tree 130' from DER, 425' left of centerline, 1800' MSL.
Tree 277' from DER, 522' left of centerline, 1807' MSL.
Tree 2500' from DER, 1100' left of centerline, 1898' MSL.
Trees and pole beginning 2675' from DER, 320' left of centerline, up to 1908' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

CLARK, SD (CON'T)
CLARK COUNTY (8D7) (CON'T)
  Rwy 31, tree 268' from DER, 560' left of centerline, 1817' MSL.
  Vehicle on road beginning 416' from DER, 155' left of centerline, up to 1812' MSL.
  Tree 1407' from DER, 676' right of centerline, 1842' MSL.

CLOQUET, MN
CLOQUET CARLTON COUNTY (COQ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 10SEP20 (20254) (FAA)
TAKEOFF OBSTACLE NOTES:
  Rwy 7, trees beginning abeam DER, 264' left of centerline, up to 100' AGL/1369' MSL.
  Trees beginning 1190' from DER, 505' right of centerline, up to 1362' MSL.
  Trees beginning 1845' from DER, 741' left of centerline, up to 1366' MSL.
  Trees beginning 2677' from DER, 10' right of centerline, up to 1366' MSL.

COOK, MN
COOK MUNI (CQM)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 09FEB12 (12040) (FAA)
TAKEOFF OBSTACLE NOTES:
  Rwy 13, trees and terrain beginning 17' from DER, left and right of centerline, up to 60' AGL/1379' MSL.
  Buildings beginning 326' from DER, 561' left of centerline, up to 20' AGL/1349' MSL.
  Rwy 31, trees beginning 134' from DER, 376' left and right of centerline, up to 60' AGL/1389' MSL.

COOPERSTOWN, ND
COOPERSTOWN MUNI (S32)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 18NOV10 (10322) (FAA)
TAKEOFF OBSTACLE NOTES:
  Rwy 13, power lines 4085' from DER, 1585' right to 1588' left of centerline, up to 80' AGL/1526' MSL.
  Rwy 31, building 12' from DER, 369' left of centerline, 14' AGL/1443' MSL.
  Vehicles 312' from DER, 550' left of centerline, 15' AGL/1444' MSL.
  Vehicles 353' from DER, 585' right of centerline, 15' AGL/1434' MSL.

CROOKSTON, MN
CROOKSTON MUNI-KIRKWOOD FIELD (CKN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 25OCT07 (07298) (FAA)
TAKEOFF MINIMUMS:
  Rwys 6, 17, 24, 35, NA-turf runways.
TAKEOFF OBSTACLE NOTES:
  Rwy 13, tree 1998' from DER, 587' left of centerline, 94' AGL/970' MSL.
  Pole 1127' from DER, 662' left of centerline, 60' AGL/926' MSL.

CROSBY, ND
CROSBY MUNI (D50)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 03JUN10 (10154) (FAA)
TAKEOFF MINIMUMS:
  Rwys 3, 21, NA-Environmental.
TAKEOFF OBSTACLE NOTES:
  Rwy 12, hangars and poles beginning 133' from DER, 263' right of centerline, up to 35' AGL/1983' MSL.
  Vehicle on road 800' from DER, 200' right of centerline, 22' AGL/1967' MSL.
  Rwy 30, power line, 2100' from DER, on centerline, 60' AGL/2011' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

DETROIT LAKES, MN
DETROIT LAKES-WETHING FIELD (DTL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 12MAY05 (05132) (FAA)
TAKEOFF MINIMUMS:
Rwys 17, 35, NA.
TAKEOFF OBSTACLE NOTES:
Rwy 31, highway 243' from DER, 267' right of centerline, 15' AGL/1404' MSL.
Railroad 534' from DER, 298' right of centerline, 23' AGL/1411' MSL.

DEVILS LAKE, ND
DEVILS LAKE RGNL (DVL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 12DEC13 (13346) (FAA)
DEPARTURE PROCEDURE:
Rwy 3, Climb heading 038° to 1900 before turning left.
TAKEOFF OBSTACLE NOTES:
Rwy 3, tree 1523' from DER, 136' right of centerline, 49' AGL/1489' MSL.
Tree 1531' from DER, 319' left of centerline, 50' AGL/1490' MSL.
Trees beginning 3105' from DER, 444' right of centerline, 71' AGL/1522' MSL.
Rwy 13, tree 1144' from DER, 716' right of centerline, 37' AGL/1482' MSL.
Pole 1101' from DER, 608' right of centerline, 39' AGL/1484' MSL.
Rwy 21, vehicle on road beginning 335' from DER, 404' right of centerline, up to 15' AGL/1477' MSL.
Antenna on pole 552' from DER, 595' left of centerline, 61' AGL/1506' MSL.
Trees beginning 613' from DER, 355' left of centerline, up to 47' AGL/1492' MSL.
Vehicles on road beginning 674' from DER, left and right of centerline, up to 15' AGL/1483' MSL.
Transmission tower 3566' from DER, 441' left of centerline, 123' AGL/1549' MSL.

DICKINSON, ND
DICKINSON-THEODORE ROOSEVELT RGNL (DIK)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 28JUN12 (12180) (FAA)
DEPARTURE PROCEDURE:
Rwy 25, Climb heading 250° to 3500 before turning left.
TAKEOFF OBSTACLE NOTES:
Rwy 7, road 887' from DER, on rwy centerline, 15' AGL/2631' MSL.

DODGE CENTER, MN
DODGE CENTER (TOB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 15JAN09 (09015) (FAA)
TAKEOFF MINIMUMS:
Rwy 22, NA-Environmental.
TAKEOFF OBSTACLE NOTES:
Rwy 16, trees 3945' from DER, 1542' left of centerline, 100' AGL/1409' MSL.

DULUTH, MN
DULUTH INTL (DLH)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 10OCT19 (19283) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 3, tree 5' from DER, 306' right of centerline, 12' AGL/1424' MSL.
Trees, terrain beginning 11' from DER, 300' right of centerline, up to 1442' MSL.
Tree 234' from DER, 542' right of centerline, 1464' MSL.
Tree 612' from DER, 26' left of centerline, 1432' MSL.
Trees beginning 655' from DER, 441' right of centerline, up to 1471' MSL.
Tree 1217' from DER, 789' left of centerline, 1449' MSL.
Trees beginning 1469' from DER, 596' left of centerline, up to 54' AGL/1468' MSL.
Trees beginning 1501' from DER, 519' right of centerline, up to 1478' MSL.
Tree 1600' from DER, 704' right of centerline, 1481' MSL.
Trees beginning 1673' from DER, 225' right of centerline, up to 1484' MSL.
Trees beginning 1892' from DER, 542' left of centerline, up to 59' AGL/1476' MSL.
Trees beginning 2112' from DER, 588' left of centerline, up to 60' AGL/1479' MSL.
Trees beginning 2171' from DER, 532' left of centerline, up to 64' AGL/1482' MSL.
Rwy 21, sign 30' from DER, 399' right of centerline, 3' AGL/1416' MSL.
Vehicles on road 178' from DER, 412' right of centerline, 1428' MSL.
Vehicles on road 359' from DER, 423' right of centerline, 1429' MSL.
Tree 471' from DER, 563' left of centerline, 37' AGL/1440' MSL.
Trees, vehicles on road, poles, transmission line beginning 576' from DER, 423' right of centerline, up to 1457' MSL.
Trees beginning 1183' from DER, 778' left of centerline, up to 44' AGL/1460' MSL.
Tower 375' from DER, 408' left of centerline, 92' AGL/1522' MSL.

CONT

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

**DULUTH, MN (CON’T)**

**DULUTH INTL (DLH) (CON’T)**

- **Rwy 27**, lighting beginning 4’ from DER, 80’ left of centerline, up to 2’ AGL/1428’ MSL.
- Lighting 4’ from DER, 120’ right of centerline, 2’ AGL/1428’ MSL.
- Lighting beginning 4’ from DER, 20’ right of centerline, up to 2’ AGL/1429’ MSL.
- Lighting beginning 4’ from DER, 29’ left of centerline, up to 2’ AGL/1429’ MSL.
- Lighting 99’ from DER, 6’ left of centerline, 3’ AGL/1431’ MSL.
- Vegetation 347’ from DER, 484’ left of centerline, 1437’ MSL.
- Trees beginning 1190’ from DER, 791’ left of centerline, up to 1470’ MSL.
- Tree 1606’ from DER, 558’ right of centerline, 33’ AGL/1468’ MSL.
- Trees beginning 1829’ from DER, 981’ right of centerline, up to 66’ AGL/1505’ MSL.
- Trees beginning 2137’ from DER, 986’ left of centerline, up to 1519’ MSL.
- Trees beginning 2257’ from DER, 20’ right of centerline, up to 1429’ MSL.
- Trees beginning 2390’ from DER, 29’ right of centerline, up to 1524’ MSL.
- Trees beginning 2573’ from DER, 1065’ right of centerline, up to 1528’ MSL.
- Trees beginning 2651’ from DER, 389’ right of centerline, up to 1531’ MSL.
- Trees beginning 2903’ from DER, 81’ right of centerline, up to 1534’ MSL.
- Trees beginning 2960’ from DER, 306’ right of centerline, up to 1541’ MSL.
- Trees beginning 3117’ from DER, 531’ left of centerline, up to 1533’ MSL.
- Trees beginning 3142’ from DER, 412’ left of centerline, up to 52’ AGL/1539’ MSL.

**EAGLE BUTTE, SD**

**CHEYENNE EAGLE BUTTE (84D)**

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

**TAKEOFF MINIMUMS:**

**Rwy 13,** NA-Turf strip.

**TAKEOFF OBSTACLE NOTES:**

- Rwy 13, vehicles on road beginning 55’ from DER, 77’ left of centerline, up to 15’ AGL/2463’ MSL.
- Fence beginning 14’ from DER, 347’ left of centerline, up to 16’ AGL/2458’ MSL.
- Rwy 31, terrain 26’ from DER, 284’ left of centerline, 2435’ MSL.
- Fence 21’ from DER, 390’ right of centerline, 5’ AGL/2433’ MSL.
- Vehicles on road beginning 70’ from DER, 283’ right of centerline, up to 15’ AGL/2444’ MSL.
- Fence beginning 122’ from DER, 364’ left of centerline, up to 9’ AGL/2441’ MSL.

**EDGELEY, ND**

**EDGELEY MUNI (51D)**

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

**ORIG 13OCT16 (16287) (FAA)**

**TAKEOFF OBSTACLE NOTES:**

- Rwy 14, ground 5’ from DER, 11’ left of centerline, 1592’ MSL.
- Electric sys 11’ from DER, 10’ right of centerline, 2’ AGL/1594’ MSL.
- Electric sys 11’ from DER, 9’ left of centerline, 2’ AGL/1594’ MSL.
- Rwy 32, electric system 8’ from DER, 10’ left of centerline, 3’ AGL/1603’ MSL.
- Fence 47’ from DER, 250’ left of centerline, 4’ AGL/1604’ MSL.
- Pole 759’ from DER, 672’ right of centerline, 26’ AGL/1626’ MSL.
- Tree 1276’ from DER, 635’ left of centerline, 47’ AGL/1652’ MSL.
- Tree 1383’ from DER, 823’ left of centerline, 51’ AGL/1652’ MSL.
- Tree 2075’ from DER, 800’ left of centerline, 58’ AGL/1659’ MSL.
- Tree 2477’ from DER, 854’ left of centerline, 68’ AGL/1669’ MSL.

**ELBOW LAKE, MN**

**ELBOW LAKE MUNI-PRIDE OF THE PRAIRIE (Y63)**

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

**ORIG 17OCT13 (13290) (FAA)**

**TAKEOFF OBSTACLE NOTES:**

- Rwy 14, trees, sign, and terrain beginning 128’ from DER, 73’ right of centerline, up to 29’ AGL/1229’ MSL.
- Navaid and terrain beginning 28’ from DER, 69’ left of centerline, up to 10’ AGL/1210’ MSL.
- Rwy 32, trees beginning 405’ from DER, 190’ left of centerline, up to 32’ AGL/1232’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

ELLENDALE, ND
ELLENDALE MUNI (4E7)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 01FEB18 (18032) (FAA)
TAKEOFF MINIMUMS:
Rwys 17, 35, NA-environmental.
TAKEOFF OBSTACLE NOTES:
Rwy 13, fence, pole, terrain beginning 10' from DER, 36' right of centerline, up to 6' AGL/1462' MSL.
Trees, terrain beginning 89' from DER, 206' right of centerline, up to 26' AGL/1481' MSL.
Tree 122' from DER, 179' left of centerline, 1461' MSL.
Tree 268' from DER, 442' right of centerline, 1482' MSL.
Tree 983' from DER, 740' left of centerline, 1481' MSL.
Trees beginning 994' from DER, 455' right of centerline, up to 1501' MSL.
Tree 1077' from DER, 658' left of centerline, 1487' MSL.
Trees beginning 1149' from DER, 509' left of centerline, up to 1500' MSL.
Trees, transmission line, pole, tower beginning 1367' from DER, 384' right of centerline, up to 1507' MSL.
Rwy 31, tree 4' from DER, 405' left of centerline, 27' AGL/1481' MSL.
Pole 19' from DER, 35' right of centerline, 2' AGL/1458' MSL.
Trees beginning 87' from DER, 295' left of centerline, up to 32' AGL/1485' MSL.
Rwy 13, Terrain 3182' MSL, 1' from DER, 490' left of centerline.
Terrain 3182' MSL, inward of DER, 500' left of centerline.
Terrain 3182' MSL, 0' from DER, 500' left of centerline.
Tree 140' AGL/3289' MSL, 2405' from DER, 1044' left of centerline.
B1 tail 34' AGL/3208' MSL, 64' inward of DER, 582' right of centerline.
Rwy 31, Building 12' AGL/3311' MSL, 1804' from DER, 762' left of centerline.

ELLSWORTH AFB (KRCA),
RAPID CITY, SD
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 13NOV14 (14317)
TAKEOFF OBSTACLE NOTES:
Rwy 13, Terrain 3182' MSL, 1' from DER, 490' left of centerline.
Terrain 3182' MSL, inward of DER, 500' left of centerline.
Terrain 3182' MSL, 0' from DER, 500' left of centerline.
Tree 140' AGL/3289' MSL, 2405' from DER, 1044' left of centerline.
Rwy 30, trees beginning 61' from DER, 242' left of centerline, up to 73' AGL/1520' MSL.
Trees beginning 665' from DER, 652' right of centerline, up to 100' AGL/1551' MSL.
Pole 670' from DER, 529' right of centerline, 49' AGL/1460' MSL.

ELY, MN
ELY MUNI (ELO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 09FEB12 (12040) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 12, rising terrain and trees beginning 148' from DER, 18' right of centerline, up to 53' AGL/1539' MSL.
Trees beginning 181' from DER, 247' left of centerline, up to 81' AGL/1542' MSL.
Rwy 30, trees beginning 61' from DER, 242' left of centerline, up to 73' AGL/1520' MSL.
Trees beginning 665' from DER, 652' right of centerline, up to 100' AGL/1551' MSL.
Pole 670' from DER, 529' right of centerline, 49' AGL/1460' MSL.

EVELETH, MN
EVELETH-VIRGINIA MUNI (EVM)
TAKEOFF MINIMUMS AND (OBSTACLE)DEPARTURE PROCEDURES
AMDT 3A 09NOV17 (17313)
TAKEOFF MINIMUMS:
Rwys 14,32, NA - environmental.
DEPARTURE PROCEDURE:
Rwy 27, northwest departures (270-050) climb heading 274° to 2000 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 9, trees beginning 1842' from DER, crossing centerline left to right, up to 88' AGL/1455' MSL.
Trees and vehicle on road beginning 13' from DER, 188' right of centerline, up to 88' AGL/433' MSL.
Rwy 27, trees and poles beginning 989' from DER, crossing centerline left to right, up to 110' AGL/1502' MSL.
Trees and vehicle on road beginning 66' from DER, 285' left of centerline, up to 37' AGL/1416' MSL.
FAIRMONT, MN
FAIRMONT MUNI (FRM)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 07MAY09 (09127) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 2, trees beginning 2486' from DER, 1105' right of centerline, up to 100' AGL/1269' MSL.
Rwy 13, tree 2340' from DER, 1039' left of centerline, 100' AGL/1269' MSL.
Rwy 20, trees beginning 1640' from DER, 914' right of centerline, up to 100' AGL/1289' MSL.
Trees beginning 913' from DER, 449' left of centerline, up to 100' AGL/1299' MSL.
Rwy 31, trees beginning 954' from DER, 161' left of centerline, up to 100' AGL/1299' MSL.
Trees and road beginning 791' from DER, 339' right of centerline, up to 57' AGL/1226' MSL.

FARGO, ND
HECTOR INTL (FAR)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3A 15DEC11 (11349) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwys 13,31, NA.

FARIBAULT, MN
FARIBAULT MUNI-LIZ WALL STROHFS FIELD (FBL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 07DEC17 (17341) (FAA)
TAKEOFF MINIMUMS:
Rwys 1, 19, NA - environmental

FERGUS FALLS, MN
FERGUS FALLS MUNI-EINAR MICKELSON FIELD (FFM)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 27AUG09 (09239) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 13, trees beginning 2612' from DER, 128' right of centerline, up to 100' AGL/1269' MSL.
Trees beginning 2514' from DER, 42' left of centerline, up to 100' AGL/1259' MSL.
Rwy 17, trees beginning 1100' from DER 663' right of centerline, up to 100' AGL/1269' MSL.
Road 222' from DER, 469' right of centerline, 15' AGL/1173' MSL.
Rwy 35, trees beginning 2156' from DER, 176' right of centerline, up to 100' AGL/1289' MSL.

FAIRMONT, MN
FAIRMONT MUNI (FRM)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 07MAY09 (09127) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 2, trees beginning 2486' from DER, 1105' right of centerline, up to 100' AGL/1269' MSL.
Rwy 13, tree 2340' from DER, 1039' left of centerline, 100' AGL/1269' MSL.
Rwy 20, trees beginning 1640' from DER, 914' right of centerline, up to 100' AGL/1289' MSL.
Trees beginning 913' from DER, 449' left of centerline, up to 100' AGL/1299' MSL.
Rwy 31, trees beginning 954' from DER, 161' left of centerline, up to 100' AGL/1299' MSL.
Trees and road beginning 791' from DER, 339' right of centerline, up to 57' AGL/1226' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

FOSSTON, MN
FOSSTON MUNI-ANDERSON FIELD (FSE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2A 08NOV18 (18312) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 16, road 17' from DER, 114' left of centerline, 10' AGL/1289' MSL.
Road 27' from DER, 127' left of centerline, 10' AGL/1289' MSL.
Rwy 34, multiple trees and REL beginning 39' from DER, 78' left of centerline, up to 56' AGL/1329' MSL.
Tree 192' from DER, 537' right of centerline, 13' AGL/1273' MSL.

GARRISON, ND
GARRISON MUNI (D05)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 13JAN11 (11013) (FAA)
TAKEOFF MINIMUMS:
Rwys 3,21, NA - Environmental.
TAKEOFF OBSTACLE NOTES:
Rwy 13, trees 849' from DER, 190' left of centerline, up to 100' AGL/1989' MSL.
Grain silos 1588' from DER, 895' left of centerline, 100' AGL/1989' MSL.
Rwy 31, vehicles on roadway beginning 424' from DER, left and right of centerline, up to 15' AGL/1974' MSL.
Trees 538' from DER, 425' left of centerline, up to 100' AGL/2059' MSL.

GETTYSBURG, SD
GETTYSBURG MUNI (0D8)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 18JAN07 (07018) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 4, multiple trees beginning 1011' from DER, 420' left of centerline, up to 60' AGL/2119' MSL.
Rwy 13, multiple trees beginning 1897' from DER, 975' left of centerline, 60' AGL/2119' MSL.
Rwy 22, multiple trees beginning 679' from DER, 117' left of centerline, up to 60' AGL/2109' MSL.

GLENCOE, MN
GLENCOE MUNI (GYL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 12MAR09 (09071) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 13, trees beginning349' from DER, 257' right of centerline, up to 100' AGL/1099' MSL.
Trees beginning 1211' from DER, 314' left of centerline, up to 100' AGL/1109' MSL.
Terrain beginning 53' from DER, 448' left of centerline, 1378' MSL.
Terrain beginning 286' from DER, 435' right of centerline, up to 100' MSL.
Tree 2577' from DER, 129' left of centerline, 100' AGL/1109' MSL.

GLENWOOD, MN
GLENWOOD MUNI (GHW)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 26AUG10 (10233) (FAA)
TAKEOFF MINIMUMS:
Rwys 5, 23 NA Environmental.
TAKEOFF OBSTACLE NOTES:
Rwy 15, road beginning 278' from DER, 521' left of centerline, 15' AGL/1414' MSL.
Trees beginning 3257' from DER, 139' right of centerline, up to 100' AGL/1489' MSL.
Power lines beginning 1266' from DER, 174' left of centerline, up to 100' AGL/1499' MSL.
Power lines beginning 1259' from DER, 793' left of centerline, up to 50' AGL/1439' MSL.

GLEN ULLIN, ND
GLEN ULLIN RGNL (D57)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 08NOV18 (18312) (FAA)
TAKEOFF MINIMUMS:
Rwy 11, 300-1¼ or std. w/ min. climb of 205' per NM to 2300, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1200' prior to DER.
TAKEOFF OBSTACLE NOTES:
Rwy 11, lighting 10' from DER, 9' right of centerline, 2' AGL/2093' MSL.
Lighting 10' from DER, 9' left of centerline, 2' AGL/2093' MSL.
Tree 577' from DER, 235' left of centerline, 2106' MSL.
Trees beginning 660' from DER, 448' right of centerline, up to 2128' MSL.
Trees beginning 793' from DER, 158' right of centerline, up to 2129' MSL.
Trees beginning 830' from DER, 352' left of centerline, up to 2127' MSL.

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

10 SEP 2020 to 08 OCT 2020
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

GLEN ULLIN, ND (CON’T)
GLEN ULLIN RGNL (D57) (CON’T)
- Rwy 11 (CON’T), trees beginning 903’ from DER, 115’ left of centerline, up to 2130’ MSL.
- Trees beginning 992’ from DER, 240’ right of centerline, up to 2133’ MSL.
- Tree 1054’ from DER, 695’ right of centerline, 2139’ MSL.
- Trees beginning 1148’ from DER, 558’ right of centerline, up to 2141’ MSL.
- Trees beginning 1174’ from DER, 770’ left of centerline, up to 2144’ MSL.
- Pole 605’ from DER, 1661’ left of centerline, 29’ AGL/2246’ MSL.
- Rwy 29, lighting 10’ from DER, 11’ left of centerline, 2’ AGL/2092’ MSL.
- Lighting 10’ from DER, 9’ right of centerline, 2’ AGL/2092’ MSL.

GRAFTON, ND
HUTSON FIELD (GAF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1  29JUL10  (10210)  (FAA)
- TAKEOFF MINIMUMS:
  - Rwy 8, 26, NA-Environmental.
- TAKEOFF OBSTACLE NOTES:
  - Rwy 17, vehicle on roads beginning 23’ from DER, 300’ left of centerline, up to 15’ AGL/837’ MSL.
  - Tree 2612’ from DER, 857’ left of centerline, 100’ AGL/929’ MSL.
  - Rwy 35, building 107’ from DER, 344’ left of centerline, 17’ AGL/836’ MSL.
  - Electrical system 153’ from DER, 398’ left of centerline, 21’ AGL/840’ MSL.
  - Vehicle on roads beginning 260’ from DER, 74’ left of centerline, up to 15’ AGL/841’ MSL.
  - Obstruction light on airport beacon 471’ from DER, 601’ left of centerline, 54’ AGL/873’ MSL.

GRAND FORKS, ND
GRAND FORKS INTL (GFK)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2  12MAR09  (09071)  (FAA)
- TAKEOFF MINIMUMS:
  - Rwy 9L, tree 127’ from DER, 451’ left of centerline, 12’ AGL/853’ MSL.
  - Rwy 27R, bush 38’ from DER, 474’ right of centerline, 5’ AGL/844’ MSL.
  - Rwy 35L, obstruction light on DME 645’ from DER, 198’ left of centerline, 21’ AGL/860’ MSL.
  - Rwy 35R, tree 1259’ from DER, 521’ right of centerline, 41’ AGL/880’ MSL.
  - Tree 1655’ from DER, 271’ left of centerline, 45’ AGL/884’ MSL.

GRAND MARAIS, MN
GRAND MARAIS/COOK COUNTY (CKC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1  02MAR17  (17061)  (FAA)
- TAKEOFF OBSTACLE NOTES:
  - Rwy 10, runway lights beginning 9’ from DER, 16’ right of centerline, up to 2’ AGL/1796’ MSL.
  - Trees, REIL, runway lights, and terrain beginning 39’ from DER, 77’ right of centerline, up to 1818’ MSL.
  - REIL 40’ from DER, 76’ left of centerline, 3’ AGL/1797’ MSL.
  - Trees beginning 147’ from DER, 35’ left of centerline, up to 1819’ MSL.
  - Trees beginning 536’ from DER, 249’ right of centerline, up to 1820’ MSL.
  - Trees beginning 739’ from DER, 82’ right of centerline, up to 1835’ MSL.
  - Rwy 28, tree and terrain beginning 8’ from DER, 202’ left of centerline, up to 1838’ MSL.
  - Tree and terrain beginning 43’ from DER, 58’ right of centerline, up to 1824’ MSL.
  - Tree and terrain beginning 177’ from DER, 41’ right of centerline, up to 38’ AGL/1837’ MSL.
  - Trees beginning 339’ from DER, 201’ left of centerline, up to 1849’ MSL.
  - Trees beginning 388’ from DER, 223’ right of centerline, up to 1847’ MSL.
  - Trees beginning 552’ from DER, 222’ right of centerline, up to 1856’ MSL.
  - Trees beginning 844’ from DER, 236’ right of centerline, up to 1865’ MSL.
  - Trees and terrain beginning 1061’ from DER, 320’ right of centerline, up to 1867’ MSL.
  - Trees beginning 1355’ from DER, 536’ right of centerline, up to 20’ AGL/1880’ MSL.
  - Trees beginning 1540’ from DER, 123’ right of centerline, up to 1896’ MSL.
  - Trees beginning 1542’ from DER, 5’ left of centerline, up to 1867’ MSL.
  - Trees beginning 2953’ from DER, 92’ right of centerline, up to 1900’ MSL.
  - Trees beginning 3035’ from DER, 32’ left of centerline, up to 1890’ MSL.
  - Trees beginning 4461’ from DER, 344’ right of centerline, up to 1924’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

GRAND RAPIDS, MN
GRAND RAPIDS/ITASCA COUNTY-GORDON NEWSTROM FIELD (GPZ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4A 20JUN19 (19171) (FAA)
TAKEOFF MINIMUMS:
Rwys 5, 23, NA - Environmental.
TAKEOFF OBSTACLE NOTES:
Rwy 16, lighting beginning 4' from DER, on centerline, up to 1' AGL/1357' MSL.
Lighting 11' from DER, 30' left of centerline, 2' AGL/1357' MSL.
Tree 398' from DER, 582' left of centerline, 1368' MSL.
Trees beginning 1122' from DER, 569' right of centerline, up to 52' AGL/1409' MSL.
Tree 1654' from DER, 898' left of centerline, 1410' MSL.
Tree 2232' from DER, 1066' right of centerline, 1421' MSL.
Trees beginning 2267' from DER, 502' right of centerline, up to 1425' MSL.
Tree 2859' from DER, 1240' left of centerline, 1429' MSL.
Tree 3055' from DER, 1264' right of centerline, 1434' MSL.
Trees beginning 3187' from DER, 1130' right of centerline, up to 1443' MSL.
Tree 3221' from DER, 1175' left of centerline, 1441' MSL.
Trees beginning 3255' from DER, 1284' right of centerline, up to 1448' MSL.
Trees beginning 3329' from DER, 1337' left of centerline, up to 1447' MSL.
Rwy 34, lighting beginning 3' from DER, 59' left of centerline, up to 2' AGL/1299' MSL.
Lighting 9' from DER, 50' right of centerline, 2' AGL/1299' MSL.
Lighting, poles beginning 9' from DER, 29' left of centerline, up to 2' AGL/1300' MSL.
Tree 3267' from DER, 1353' left of centerline, 109' AGL/1405' MSL.

GRANITE FALLS, MN
GRANITE FALLS MUNI/LENZEN-ROE FAGEN MEMORIAL FIELD (GDB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 06MAY10 (10126) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 15, trees beginning 1780' from DER, 94' left of centerline, up to 100' AGL/1149' MSL.
Rwy 33, trees beginning 1196' from DER, left and right of centerline, up to 100' AGL/1149' MSL.
Power line 1242' from DER, 762' left of centerline, 80' AGL/1129' MSL.
Train 1390' from DER, 149' left of centerline, 23' AGL/1162' MSL.
Vehicle on road 1389' from DER, 156' left of centerline, up to 15' AGL/1154' MSL.

GREGORY, SD
GREGORY MUNI-FLYNN FIELD (9D1)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 01JUL10 (10182) (FAA)
TAKEOFF MINIMUMS:
Rwy 31, 400-2¼ or std. with a min. climb of 228' per NM to 2600.
TAKEOFF OBSTACLE NOTES:
Rwy 31, tower 11377' from DER, 816' right of centerline, 210' AGL/2491' MSL.

GWINNER, ND
GWINNER-ROGER MELROE FIELD (GWR)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT1 18SEP14 (14261) (FAA)
TAKEOFF MINIMUMS:
Rwys 6, 24, NA-Environment.
DEPARTURE PROCEDURE:
Rwy 34, climbing right turn heading 010° to 2000 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 34, tree 84' from DER, 469' right of centerline, 43' AGL/1293' MSL.
Pole 523' from DER, 626' right of centerline, 47' AGL/1296' MSL.

HALLOCK, MN
HALLOCK MUNI (HCO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 05MAY11 (11125) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 13, tree 1076' from DER, 620' right of centerline, 100' AGL/919' MSL.
Trees beginning 81' from DER, from 472' left of centerline, up to 100' AGL/919' MSL.
Rwy 31, tree 1668' from DER, 560' right of centerline, 100' AGL/919' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

HARVEY, ND

HARVEY MUNI (5H4)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 23SEP10 (10266) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 11, vehicle on road beginning 50' from DER, 318' left of centerline, up to 15' AGL/1654' MSL.
Tree 300' from DER, 329' right of centerline, 20' AGL/1621' MSL.
Tree 350' from DER, 444' right of centerline, 20' AGL/1619' MSL.

Rwy 29, vehicle on road beginning 4' from DER, left and right of centerline, up to 15' AGL/1654' MSL.
Rising terrain beginning 7' from DER, 31' left of centerline, up to 1608' MSL.

HAWLEY, MN

HAWLEY MUNI (04Y)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 15MAR07 (07074) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 34, road 15' from DER, 421' left of centerline, 15' AGL/1224' MSL.

HAZEN, ND

MERCER COUNTY RGNL (HZE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 29JUL10 (10210) (FAA)

TAKEOFF MINIMUMS:

Rwy 32, std. w/min. climb of 215' per NM to 2700, or 900-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 32, for climb in visual conditions: cross Mercer County Rgnl airport at or above 2600 MSL before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 14, numerous fences beginning 196' from DER, 108' left of centerline, up to 12' AGL/1843' MSL.
Terrain beginning 501' from DER, 271' left of centerline, up to 1837' MSL.

HAZEN, ND

MERCER COUNTY RGNL (HZE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 29JUL10 (10210) (FAA)

TAKEOFF MINIMUMS:

Rwy 32, std. w/min. climb of 215' per NM to 2700, or 900-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 32, for climb in visual conditions: cross Mercer County Rgnl airport at or above 2600 MSL before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 14, numerous fences beginning 196' from DER, 108' left of centerline, up to 12' AGL/1843' MSL.
Terrain beginning 501' from DER, 271' left of centerline, up to 1837' MSL.

HETTINGER, ND

HETTINGER MUNI (HEI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 08NOV18 (18312) (FAA)

TAKEOFF MINIMUMS:

Rwys 17, 35, NA – environmental.

Rwy 30, 300-1-½ or std. w/min. climb of 301' per NM to 3000.

DEPARTURE PROCEDURE:

Rwy 30, climb heading 308° to 3200 before turning right.

TAKEOFF OBSTACLE NOTES:

Rwy 12, fence 26' from DER, 435' right of centerline, 2703' MSL.
Tree 1655' from DER, 857' left of centerline, 2743' MSL.
Tree 1763' from DER, 733' left of centerline, 2754' MSL.
Tree 2443' from DER, 1095' left of centerline, 2764' MSL.
Tree 3135' from DER, 628' left of centerline, 2779' MSL.
Tree 3137' from DER, 1028' left of centerline, 2780' MSL.
Tree 3403' from DER, 1276' left of centerline, 2786' MSL.
Tree 3513' from DER, 1427' left of centerline, 2792' MSL.
Tree 3527' from DER, 1216' left of centerline, 2809' MSL.
Tree 3589' from DER, 1354' left of centerline, 2816' MSL.
Trees beginning 3613' from DER, 1137' left of centerline, up to 2826' MSL.
Tree 4520' from DER, 1293' left of centerline, 2838' MSL.
Trees beginning 4569' from DER, 1262' left of centerline, up to 60' AGL/2849' MSL.
Tree 5487' from DER, 1936' left of centerline, 60' AGL/2869' MSL.
Tower, trees beginning 5516' from DER, 1129' left of centerline, up to 100' AGL/2906' MSL.
Trees beginning 5926' from DER, 1917' left of centerline, up to 60' AGL/2859' MSL.

Rwy 30, fence 26' from DER, 401' left of centerline, 2706' MSL.
Terrain 53' from DER, 252' right of centerline, 2709' MSL.
Fence 199' from DER, 349' right of centerline, 2713' MSL.
Terrain 290' from DER, 569' right of centerline, 2714' MSL.
Terrain 888' from DER, 703' right of centerline, 2732' MSL.
Fence 1134' from DER, 670' right of centerline, 2743' MSL.
HIBBING, MN
RANGE RGNL (HIB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 6  05AUG04  (04218)  (FAA)
DEPARTURE PROCEDURE:
Rwy 22, climb via heading 227° to 2200 before turning right.
Rwy 31, climb via heading 310° to 2200 before turning left.
TAKEOFF OBSTACLE NOTES:
Rwy 4, antenna on pole, 361' from DER, 409' right of centerline, 1377' MSL.
Rwy 13, obstacle light on pole, 1184' from DER, 636' left of centerline.
Numerous trees beginning 1291' from DER, 745' left of centerline up to 1419' MSL.
Trees 1497' from DER, 563' right of centerline, 1388' MSL.
Rwy 22, multiple trees beginning 368' from DER, 170' right of centerline, up to 1416' MSL.
Multiple trees beginning 413' from DER, 117' left of centerline, up to 1400' MSL.
Rwy 31, light standard, 865' from DER, 595' right of centerline, 1381' MSL.

HIGHMORE, SD
HIGHMORE MUNI (9D0)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG  15SEP16  (16259)  (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 13, tank 245' from DER, 564' left of centerline, 44' AGL/1890' MSL.
Tank 9' from DER, 492' left of centerline, 30' AGL/1877' MSL.
Building 169' from DER, 449' left of centerline, 23' AGL/1871' MSL.
Vehicles on road beginning 70' from DER, 397' left of centerline, up to 17' AGL/922' MSL.
Vehicles on road beginning 109' from DER, 326' right of centerline, up to 17' AGL/923' MSL.
Vehicles on road beginning 355' from DER, 326' right of centerline, 17' AGL/924' MSL.
Vehicles on roads beginning 632' from DER, 61' right of centerline, 17' AGL/925' MSL.
Rwy 34, post 4' from DER, 140' right of centerline, 5' AGL/908' MSL.
NAVAID 21' from DER, 126' left of centerline, 2' AGL/907' MSL.
Vehicles on road beginning 65' from DER, 411' right of centerline, up to 20' AGL/919' MSL.

HILLSBORO, ND
HILLSBORO MUNI (3H4)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1  08JAN15  (15008)  (FAA)
DEPARTURE PROCEDURE:
Rwy 16, climb heading 166° to 1700 before turning right.
Rwy 34, climb heading 346° to 2000 before turning left.
TAKEOFF OBSTACLE NOTES:
Rwy 16, REILs 11' from DER, 52' right of centerline, 1' AGL/906' MSL.
Vehicles on road beginning 9' from DER, 463' right of centerline, up to 17' AGL/922' MSL.
Vehicles on road beginning 109' from DER, 326' right of centerline, up to 17' AGL/923' MSL.
Vehicles on road beginning 355' from DER, 326' right of centerline, 17' AGL/924' MSL.
Vehicles on roads beginning 632' from DER, 61' right of centerline, 17' AGL/925' MSL.
Rwy 34, post 4' from DER, 140' right of centerline, 5' AGL/908' MSL.
NAVAID 21' from DER, 126' left of centerline, 2' AGL/907' MSL.
Vehicles on road beginning 65' from DER, 411' right of centerline, up to 20' AGL/919' MSL.

HINCKLEY, MN
FIELD OF DREAMS (04W)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG  14FEB08  (08045)  (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 6, Tree 82' from DER, 480' right of centerline, 100' AGL/1114' MSL.
Tree 143' from DER, 161' left of centerline, 100' AGL/1114' MSL.
Rwy 24, Tree 48' from DER, 165' left of centerline, 100' AGL/1124' MSL.

HOT SPRINGS, SD
HOT SPRINGS MUNI (HSR)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1  26JUL12  (12208)  (FAA)
TAKEOFF MINIMUMS:
Rwys 6, 24, NA-environmental.
Rwy 1, 400-2% or std. w/min. climb of 235' per NM to 3700.
Rwy 19, 400-2% or std. w/min. climb of 255' per NM to 3600.
DEPARTURE PROCEDURE:
Rwy 1, climb heading 026° to 4700 before turning westbound.
Rwy 19, climb heading 192° to 4700 before turning westbound.
CONT
HOT SPRINGS, SD (CON’T)
HOT SPRINGS MUNI (HSR) (CON’T)

**TAKEOFF OBSTACLE NOTES:**

- **Rwy 1,** terrain 55’ from DER, 468’ right of centerline, 3144’ MSL.
- Vehicle on road beginning 312’ from DER, left and right of centerline, up to 15’ AGL/3154’ MSL.
- Trees beginning 526’ from DER, left and right of centerline, up to 100’ AGL/3239’ MSL.
- Trees 2.1 NM from DER, 3246’ left of centerline, up to 100’ AGL/3519’ MSL.
- **Rwy 19,** vehicle on road beginning 5’ from DER, 369’ left of centerline, up to 15’ AGL/3161’ MSL.
- Vehicle on road beginning 407’ from DER, left and right of centerline, up to 15’ AGL/3166’ MSL.
- Poles beginning 607’ from DER, left and right of centerline, up to 30’ AGL/3181’ MSL.
- Multiple trees and poles beginning 1875’ from DER, left and right of centerline, up to 100’ AGL/3281’ MSL.
- Buildings 3031’ from DER, 149’ left of centerline, up to 20’ AGL/3230’ MSL.
- Fence beginning 3033’ from DER, 559’ left of centerline, up to 6’ AGL/3236’ MSL.
- Rising terrain beginning 3477’ from DER, 545’ left of centerline, up to 3241’ MSL.
- Trees beginning 1.6 NM from DER, 764’ left of centerline, up to 100’ AGL/3489’ MSL.
- Power lines beginning 1.4 NM from DER, 166’ left of centerline, up to 120’ AGL/3440’ MSL.

**HURON, SD**
HURON RGNL (HON)

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

AMDT 5  27AUG09  (09239)  (FAA)

**TAKEOFF OBSTACLE NOTES:**

- **Rwy 12,** trees and pole beginning 918’ from DER, 525’ left of centerline, up to 62’ AGL/1341’ MSL.
- Trees beginning 291’ from DER, 234’ right of centerline, up to 67’ AGL/1346’ MSL.
- **Rwy 17,** trees beginning 236’ from DER, 307’ left of centerline, up to 67’ AGL/1346’ MSL.
- Trees beginning 264’ from DER, 262’ right of centerline, 73’ AGL/1352’ MSL.
- **Rwy 30,** trees beginning 3428’ from DER, 1378’ left of centerline, up to 100’ AGL/1394’ MSL.
- **Rwy 35,** trees beginning 60’ from DER, 104’ left of centerline, up to 49’ AGL/1328’ MSL.

**HUTCHINSON, MN**
HUTCHINSON MUNI-BUTLER FIELD (HCD)

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

ORIG  30JUN11  (11181)  (FAA)

**TAKEOFF OBSTACLE NOTES:**

- **Rwy 15,** tree 3342’ from DER, 425’ right of centerline, 89’ AGL/1148’ MSL.
- Trees beginning 545’ from DER, 394’ left of centerline, up to 64’ AGL/1113’ MSL.
- **Rwy 33,** tree 994’ from DER, 561’ right of centerline, 40’ AGL/1099’ MSL.

**INTERNATIONAL FALLS, MN**
FALLS INTL-EINARSON FIELD (INL)

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

AMDT 3A  08JAN15  (15008)  (FAA)

**TAKEOFF OBSTACLE NOTES:**

- **Rwy 4,** Tree 392’ from DER 311’ left of centerline, 51’ AGL/1231’ MSL.
- **Rwy 13,** multiple trees beginning 1999’ from DER, 773’ left of centerline, up to 63’ AGL/1233’ MSL.
- Pole 1091’, from DER, 703’ right of centerline, 37’ AGL/1207’ MSL.
- Road 1005’ from DER, 766’ left of centerline, 15’ AGL/1195’ MSL.
- **Rwy 22,** Multiple trees beginning 433’ from DER 273’ left of centerline, up to 33’ AGL/1213’ MSL.
- Trees 1144’ from DER 136’ right of centerline, 28’ AGL/1208’ MSL.
- **Rwy 31,** Trees 968’ from DER, 752’ left of centerline, 56’ AGL/1236’ MSL.

**JACKSON, MN**
JACKSON MUNI (MJQ)

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

ORIG  14FEB08  (08045)  (FAA)

**TAKEOFF OBSTACLE NOTES:**

- **Rwys 4,22,** NA-TURF.
- **DEPARTURE PROCEDURE:**
  - **Rwy 13,** Climb heading 134° to 1900 before turning right.

**TAKEOFF OBSTACLE NOTES:**

- **Rwy 13,** Trees beginning 1474’ from DER, 556’ left of centerline, up to 80’ AGL/1539’ MSL.
- Vehicle on road 258’ from DER, 559’ from centerline, 15’ AGL/1459’ MSL.
- **Rwy 31,** Vehicle on road 465’ from DER, 618’ left of centerline, 15’ AGL/1446’ MSL.
- Trees beginning 1816’ from DER, 580’ right of centerline, up to 80’ AGL/1519’ MSL.
- Trees beginning 1110’ from DER, 429’ left of centerline, up to 80’ AGL/1509’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

JAMESTOWN, ND
JAMESTOWN RGNL (JMS)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 30AUG07 (07242) (FAA)
TAKEOFF OBSTACLE NOTES:
- Rwy 22, antenna and tank beginning 2960' from DER, 1007' left of centerline, up to 150' AGL/1631' MSL.
- Rwy 31, multiple trees beginning 2129' from DER 47' right of centerline, up to 60' AGL/1560' MSL.

KENMARE, ND
KENMARE MUNI (7K5)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 05MAY11 (11125) (FAA)
TAKEOFF OBSTACLE NOTES:
- Rwy 8, vehicles on roadway 359' from DER, left and right of centerline, up to 15' AGL/1980' MSL.
- Trees 374' from DER, 359' right of centerline, 50' AGL/2004' MSL.
- Rw 26, aircraft on taxiway beginning abeam DER, 385' right of centerline, up to 17' AGL/1981' MSL.
- Hangars beginning 147' from DER, 506' right of centerline, up to 30' AGL/1994' MSL.
- Pole 1259' from DER, 499' right of centerline, 40' AGL/2002' MSL.
- Trees beginning 1342' from DER, 85' right of centerline, up to 50' AGL/2014' MSL.

KINDRED, ND
ROBERT ODEGAARD FIELD (K74)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 05MAR15 (15064) (FAA)
TAKEOFF OBSTACLE NOTES:
- Rw 29, tree 991' from DER, 367' left of centerline, 38' AGL/982' MSL.
- Tree 1073' from DER, 221' left of centerline, 38' AGL/982' MSL.

LANGDON, ND
ROBERTSON FIELD (D55)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 03JUN10 (10154) (FAA)
TAKEOFF MINIMUMS:
- Rwys 8, 26, NA - Environmental.
TAKEOFF OBSTACLE NOTES:
- Rw 14, vehicles on road beginning 479' to 684' from DER, from 238' to 413' left of centerline, up to 15' AGL/1627' MSL.
- Rw 32, windsock 13' from DER, 416' right of centerline, 16' AGL/1619' MSL.
- Fence 24' from DER, 301' left of centerline, 5' AGL/1608' MSL.
- Fence 199' from DER, 293' left of centerline, 5' AGL/1608' MSL.
- Trees beginning 485' from DER 203' right of centerline, up to 30' AGL/1628' MSL.
- Trees beginning 1912' from DER, 241' to 418' left of centerline, up to 78' AGL/1677' MSL.

LAKOTA, ND
LAKOTA MUNI (5L0)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 22JUN17 (17173) (FAA)
TAKEOFF OBSTACLE NOTES:
- Rw 15, tree 129' from DER, 141' right of centerline, 1511' MSL.
- Tree 849' from DER, 214' left of centerline, 1531' MSL.
- Tree 877' from DER, 202' left of centerline, 1532' MSL.
- T-L tower 906' from DER, 439' left of centerline, 27' AGL/1533' MSL.
- Pole beginning 907' from DER, 430' left of centerline, up to 29' AGL/1534' MSL.
- Trees beginning 979' from DER, 197' left of centerline, up to 1553' MSL.
- Rw 33, tree 29' from DER, 290' right of centerline, 1524' MSL.
- Building 482' from DER, 576' left of centerline, 23' AGL/1531' MSL.
- Road (N) beginning 587' from DER, 113' right of centerline, up to 1527' MSL.
- Tree 817' from DER, 536' right of centerline, 1541' MSL.
- Trees beginning 894' from DER, 173' right of centerline, up to 1554' MSL.
- Trees beginning 904' from DER, 175' right of centerline, up to 1557' MSL.
- Trees beginning 937' from DER, 158' right of centerline, up to 1558' MSL.
- Trees beginning 1004' from DER, 56' right of centerline, up to 1560' MSL.
- Tree 1063' from DER, 72' left of centerline, 1542' MSL.
- Trees and pole beginning 1099' from DER, 77' left of centerline, up to 1551' MSL.
LEMMON, SD
LEMMON MUNI (LEM)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 22AUG13 (13234) (FAA)
TAKEOFF MINIMUMS:
Rwys 7, 25, NA - Environmental.
TAKEOFF OBSTACLE NOTES:
Rwy 11, rising terrain beginning 43’ from DER, 318’ right of centerline, up to 2575’ MSL.
Vehicles on road beginning 861’ from DER, 369’ left of centerline, up to 15’ AGL/2596’ MSL.
Rwy 29, vehicles on road beginning 445’ from DER, 231’ left of centerline, up to 15’ AGL/2583’ MSL.

LINTON, ND
LINTON MUNI (7L2)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 22AUG13 (13234) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 9, trees beginning 902’ from DER, 210’ right of centerline, up to 100’ AGL/1830’ MSL.
Flag pole 37’ from DER, 465’ left of centerline, 30’ AGL/1810’ MSL.
Vehicle on road beginning 72’ from DER, 237’ right of centerline, up to 15’ AGL/1815’ MSL.
Rwy 27, trees beginning 14’ from DER, 286’ left of centerline, up to 100’ AGL/1806’ MSL.

LISBON, ND
LISBON MUNI (6L3)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 05JAN17 (17005) (FAA)
TAKEOFF MINIMUMS:
Rwy 3, 21, NA, Environmental.
TAKEOFF OBSTACLE NOTES:
Rwy 14, terrain beginning 2’ from DER, 168’ right of centerline, up to 1231’ MSL.
Pole 51’ from DER, 499’ left of centerline, 1250’ MSL.
Vehicle on road beginning 441’ from DER, left and right of centerline, up to 1248’ MSL.
Trees beginning 1136’ from DER, 405’ right of centerline, up to 1280’ MSL.
Rwy 32, terrain beginning 60’ from DER, 297’ left of centerline, up to 1234’ MSL.
Tree 109’ from DER, 167’ left of centerline, 1238’ MSL.
Fence beginning 123’ from DER, 497’ right of centerline, up to 3’ AGL/1235’ MSL.
Fence and tree beginning 270 from DER, 149’ right of centerline, up to 1242’ MSL.

LITCHFIELD, MN
LITCHFIELD MUNI (LJF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 23SEP10 (10266) (FAA)
DEPARTURE PROCEDURE:
Rwy 31, climb heading 316° to 1700 before turning left.
TAKEOFF OBSTACLE NOTES:
Rwy 13, trees beginning 11’ from DER, 417’ left and right of centerline, up to 90’ AGL/1234’ MSL.
Trees beginning 1251’ from DER, 830’ left of centerline, up to 89’ AGL/1228’ MSL.
Rwy 31, trees beginning 958’ from DER, 73’ left of centerline, up to 46’ AGL/1185’ MSL.
Trees beginning 13’ from DER, 370’ right of centerline, up to 95’ AGL/1234’ MSL.

LITTLE FALLS, MN
LITTLE FALLS/MORRISON COUNTY-LINDBERGH FIELD (LXL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4A 01MAY14 (14121) (FAA)
TAKEOFF MINIMUMS:
Rwy 13, 300-1½ or std. w/min. climb of 301’ per NM to 1500.
Rwys 18,36, NA– Environmental.
DEPARTURE PROCEDURE:
Rwy 31, climb heading 308° to 1600 before turning right.
TAKEOFF OBSTACLE NOTES:
Rwy 13, numerous trees beginning 76’ from DER, right and left of centerline, up to 100’ AGL/1389’ MSL.
Rwy 31, numerous trees beginning 1966’ from DER, right and left of centerline, up to 100’ AGL/1214’ MSL.
LONG PRAIRIE, MN
TODD FIELD (14Y)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 21MAY20 (20142) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 16, roads beginning 62' from DER, 476' left of centerline, up to 1342' MSL.
Terrain 89' from DER, 228' right of centerline, 1330' MSL.
Rwy 34, buildings and light beginning 0' from DER, 114' right of centerline, up to 21' AGL/1349' MSL.
Light 9' from DER, 18' left of centerline, 2' AGL/1334' MSL.
Trees, building, and pole beginning 313' from DER, 110' left of centerline, up to 1361' MSL.
Poles beginning 652' from DER, 638' right of centerline, up to 36' AGL/1363' MSL.
Trees and pole beginning 738' from DER, 98' left of centerline, up to 1375' MSL.
Trees beginning 851' from DER, 497' left of centerline, up to 1383' MSL.

LONGVILLE, MN
LONGVILLE MUNI (XVG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 21MAY20 (20142) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 13, vehicle on road 1' from DER, 125' left of centerline, 1338' MSL.
Tree 5' from DER, 428' left of centerline, 15' AGL/1341' MSL.
Trees, vehicles on road beginning 9' from DER, 55' left of centerline, up to 1343' MSL.
Trees, vehicles on road beginning 33' from DER, 81' right of centerline, up to 1350' MSL.
Trees beginning 179' from DER, 124' right of centerline, up to 1364' MSL.
Trees beginning 188' from DER, 103' right of centerline, up to 1365' MSL.
Trees beginning 217' from DER, 120' right of centerline, up to 1385' MSL.
Trees beginning 269' from DER, 10' right of centerline, up to 1388' MSL.
Tree 334' from DER, 354' left of centerline, 26' AGL/1344' MSL.
Tree 381' from DER, 498' left of centerline, 1366' MSL.
Tree 444' from DER, 592' left of centerline, 1380' MSL.
Trees beginning 495' from DER, 295' left of centerline, up to 1392' MSL.
Trees beginning 748' from DER, 595' left of centerline, up to 1393' MSL.
Trees beginning 853' from DER, 2' left of centerline, up to 1399' MSL.
Trees beginning 1790' from DER, 54' left of centerline, up to 1405' MSL.
Rwy 31, vegetation 1' from DER, 154' right of centerline, 6' AGL/1340' MSL.
Vegetation, lighting beginning 2' from DER, 47' right of centerline, up to 10' AGL/1343' MSL.
Terrain 8' from DER, 186' left of centerline, 1335' MSL.
Building, lighting, sign beginning 9' from DER, 77' left of centerline, up to 17' AGL/1352' MSL.
Building, terrain, vehicles on road, vegetation, pole, sign beginning 23' from DER, 126' left of centerline, up to 64' AGL/1399' MSL.
Vegetation beginning 43' from DER, 103' right of centerline, up to 14' AGL/1347' MSL.
Vegetation, terrain, vehicles beginning 198' from DER, 139' right of centerline, up to 1349' MSL.
Trees, vehicles on road beginning 288' from DER, 131' right of centerline, up to 24' AGL/1359' MSL.
Trees, vehicles on road beginning 362' from DER, 4' left of centerline, up to 1414' MSL.
Tree 368' from DER, 524' right of centerline, 48' AGL/1383' MSL.
Trees beginning 370' from DER, 216' right of centerline, up to 1406' MSL.
Trees, vehicles on road beginning 505' from DER, 18' right of centerline, up to 1408' MSL.
Trees, vehicles on road beginning 666' from DER, 80' right of centerline, up to 1412' MSL.
Tree 758' from DER, 457' right of centerline, 1414' MSL.
Trees, vehicles on road, buildings beginning 780' from DER, 4' right of centerline, up to 83' AGL/1426' MSL.
Trees beginning 1456' from DER, 2' left of centerline, up to 76' AGL/1415' MSL.
Trees beginning 1545' from DER, 110' left of centerline, up to 65' AGL/1416' MSL.
Trees beginning 1564' from DER, 180' left of centerline, up to 64' AGL/1418' MSL.
Trees beginning 1575' from DER, 105' left of centerline, up to 70' AGL/1425' MSL.
Trees beginning 1589' from DER, 92' left of centerline, up to 69' AGL/1426' MSL.
Trees beginning 1640' from DER, 101' left of centerline, up to 1430' MSL.
Trees beginning 1667' from DER, 19' left of centerline, up to 1432' MSL.
Trees beginning 1748' from DER, 4' right of centerline, up to 80' AGL/1431' MSL.
Trees beginning 1782' from DER, 50' left of centerline, up to 86' AGL/1434' MSL.
Trees beginning 1808' from DER, 3' left of centerline, up to 1435' MSL.
Trees beginning 1894' from DER, 15' left of centerline, up to 1441' MSL.
Trees beginning 1915' from DER, 1' left of centerline, up to 1442' MSL.
Trees beginning 1974' from DER, 0' left of centerline, up to 1446' MSL.
Trees, pole beginning 1994' from DER, 49' right of centerline, up to 82' AGL/1434' MSL.
Trees beginning 2008' from DER, 3' left of centerline, up to 1448' MSL.
Trees beginning 2016' from DER, 1' right of centerline, up to 92' AGL/1442' MSL.
Trees beginning 2058' from DER, 5' left of centerline, up to 1449' MSL.
Trees beginning 2104' from DER, 51' left of centerline, up to 1454' MSL.
Trees beginning 2110' from DER, 32' left of centerline, up to 1456' MSL.
LONGVILLE, MN (CON’T)
LONGVILLE MUNI (XVG) (CON’T)

Rwy 31 (CON’T), trees beginning 2165’ from DER, 3’ left of centerline, up to 1467’ MSL.
Trees beginning 2910’ from DER, 211’ right of centerline, up to 1445’ MSL.
Trees beginning 3288’ from DER, 101’ right of centerline, up to 1448’ MSL.
Trees beginning 4165’ from DER, 62’ right of centerline, up to 1449’ MSL.
Trees beginning 4203’ from DER, 115’ right of centerline, up to 1456’ MSL.
Tree 4245’ from DER, 122’ right of centerline, 1459’ MSL.
Trees beginning 4250’ from DER, 28’ right of centerline, up to 1463’ MSL.
Trees beginning 4610’ from DER, 578’ left of centerline, up to 1469’ MSL.
Road plus vehicle 685’ from DER, 574’ right of centerline, 15’ AGL/1454’ MSL.
Terrain 20’ from DER, on centerline, 1429’ MSL.

LUVERNE, MN
QUENTIN AANENSON FIELD (LYV)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 03JUN10 (10154) (FAA)
TAKEOFF OBSTACLE NOTES:

Rwy 18, tree 813’ from DER, 578’ left of centerline, 50’ AGL/1469’ MSL.
Road plus vehicle 685’ from DER, 574’ right of centerline, 15’ AGL/1454’ MSL.
Terrain 20’ from DER, on centerline, 1429’ MSL.

MADISON, MN
LAC QUI PARLE COUNTY (DXX)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 15NOV12 (12320) (FAA)
TAKEOFF MINIMUMS:

Rwys 9, 27, NA-Environmental.

Rwys 32, 300-1/2 or std. w/min. climb of 213’ per NM to 1400, or alternatively, with standard takeoff minimums and a normal 200’ per NM climb gradient, takeoff must occur no later than 1500’ prior to DER.

TAKEOFF OBSTACLE NOTES:

Rwy 14, trees beginning 40’ from DER, 463’ right of centerline, up to 15’ AGL/1766’ MSL.
Plant and fence beginning 65’ from DER, 384’ right of centerline, up to 24’ AGL/1733’ MSL.

Rwys 33, plant and fence beginning 131’ from DER, 9’ right of centerline, up to 100’ AGL/1859’ MSL.

MAHOMEN, MN
MAHOMEN COUNTY (3N8)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 17OCT13 (13290) (FAA)
TAKEOFF MINIMUMS:

Rwys 9, 27, NA-Environmental.

TAKEOFF OBSTACLE NOTES:

Rwy 17, terrain beginning 14’ from DER, 402’ right of centerline, up to 1248’ MSL.

Rwys 35, vegetation on roadway, poles, and telephone lines beginning 201’ from DER, 450’ left of centerline, up to 42’ AGL/1273’ MSL.

Telephone line 972’ from DER, 590’ right of centerline, 35’ AGL/1266’ MSL.

Trees beginning 1597’ from DER 605’ left of centerline, 75’ AGL/1306’ MSL.
Mandan, ND
Mandan Muni (Y19)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 29MAY14 (14149) (FAA)
TAKEOFF MINIMUMS:
Rwys 4, 22, NA-Environmental.
TAKEOFF OBSTACLE NOTES:
Rwy 13, fence and trees beginning 26’ from DER, 310’ left of centerline, up to 48’ AGL/1988’ MSL.
Transmission lines and pole beginning 1604’ from DER, from left to right of centerline, up to 64’ AGL/1984’ MSL.
Rwy 31, trees beginning 1256’ from DER, from left to right of centerline up to 65’ AGL/1995’ MSL.

Mankato, MN
Mankato Rgnl (MKT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 24SEP09 (09267) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwys 4, trees beginning 447’ from DER, 408’ right of centerline, up to 100’ AGL/1078’ MSL.
Trees beginning 1996’ from DER, 17’ left of centerline, up to 100’ AGL/1084’ MSL.
Rwys 15, trees beginning 1552’ from DER, 719’ left of centerline, up to 100’ AGL/1086’ MSL.
Rwys 22, trees beginning 2370’ from DER, 989’ right of centerline, up to 100’ AGL/1069’ MSL.
Rwys 33, trees beginning 2085’ from DER, 780’ right of centerline, up to 100’ AGL/1077’ MSL.
Rising terrain 9’ from DER, 65’ right of centerline, up to 1020’ MSL.
Terrain beginning 82’ from DER, 60’ left of centerline, up to 1029’ MSL.

Marshall, MN
Southwest Minnesota Rgnl Marshall/Ryan Field (MML)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2A 10DEC15 (15344) (FAA)
TAKEOFF MINIMUMS:
Rwy 20, Std. w/ min. climb of 270’ per NM to 2000, or 1000-3 for climb in visual conditions.
DEPARTURE PROCEDURE:
Rwy 20, for climb in visual conditions, cross Marshall Airport at or above 2000 MSL before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwys 2, runway light 39’ from DER, 79’ left of centerline, 3’ AGL/1174’ MSL;
Trees beginning 1324’ from DER, 796’ left of centerline, up to 89’ AGL/1256’ MSL.
Rwys 12, Pole 706’ from DER, 671’ right of centerline, 60’ AGL/1212’ MSL.
Pole 1580’ from DER, 732’ left of centerline, 70’ AGL/1225’ MSL.
Antenna 1496’ from DER, 620’ right of centerline, 64’ AGL/1219’ MSL.
Pole 1185’ from DER, 540’ right of centerline, 55’ AGL/1210’ MSL.
Tree 3564’ from DER, 400’ right of centerline, 110’ AGL/1269’ MSL.
Tree 2135’ from DER, 113’ left of centerline, 77’ AGL/1232’ MSL.
Rwys 20, runway light 41’ from DER, 78’ right of centerline, 2’ AGL/1182’ MSL.
Runway light 41’ from DER, 78’ left of centerline, 2’ AGL/1182’ MSL.
Rwys 30, Vehicle on road 1’ from DER, 435’ left of centerline, 24’ AGL/1200’ MSL.

Martin, SD
Martin Muni (9V6)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 26MAY16 (16147) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 14, it support structure 9’ from DER, 20’ left of centerline, 3280’ MSL.
Lt support structure 10’ from DER, 9’ right of centerline, 3278’ MSL.
Ground 13’ from DER, 408’ left of centerline, 3282’ MSL.
Ground 27’ from DER, 199’ left of centerline, 15’ AGL/3282’ MSL.
Fence and ground beginning 74’ from DER, 219’ left of centerline, up to 3287’ MSL.
Vehicle on road 145’ from DER, 289’ right of centerline, 15’ AGL/3283’ MSL.
Rwys 32, building, pole, ground and, vehicle on road, beginning 1’ from DER, 9’ left of centerline, up to 23’ AGL/3317’ MSL.
Tree 1083’ from DER, 19’ left of centerline, 3322’ MSL.
Tree 1095’ from DER, 387’ right of centerline, 3382’ MSL.
Tree 1172’ from DER, 130’ left of centerline, 3340’ MSL.
Tree and pole beginning 1270’ from DER, 9’ left of centerline, up to 3341’ MSL.
Tree 1315’ from DER, 219’ left of centerline, 3343’ MSL.
Poles and trees beginning 1366’ from DER, 174’ left of centerline, up to 44’ AGL/3349’ MSL.
Trees beginning 1463’ from DER, 94’ right of centerline, up to 3334’ MSL.
Poles and trees beginning 1481’ from DER, 406’ left of centerline, up to 43’ AGL/3350’ MSL.
MC GREGOR, MN
ISEDOR IVERSON (HZX)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 15DEC11 (11349) (FAA)
DEPARTURE PROCEDURE:
Rwy 14, climb heading 139° to 1900 before turning left.
TAKEOFF OBSTACLE NOTES:
Rwy 14, trees beginning 72' from DER, 440' left of centerline, up to 100’ AGL/1324’ MSL.
Trees beginning 1158’ from DER, 724’ right of centerline, up to 100’ AGL/1324’ MSL.
Trees beginning 2888’ from DER, 589’ left of centerline, up to 100’ AGL/1334’ MSL.
Rwy 32, vehicles on roadway beginning 499’ from DER, 577’ left of centerline, up to 17’ AGL/1246’ MSL.
Trees beginning 2919’ from DER, left and right of centerline, up to 100’ AGL/1329’ MSL.

MILBANK, SD
MILBANK MUNI (1D1)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 10APR08 (08101) (FAA)
TAKEOFF MINIMUMS:
Rwy 25, std. w/min. climb of 207’ per NM to 1900, or 900–2½ for climb in visual conditions.
DEPARTURE PROCEDURE: Rwy 25, for climb in visual conditions cross Milbank Muni airport at or above 1900 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 7, trees beginning 1207’ from DER, 387’ left of centerline, up to 100’ AGL/ 1219’ MSL.
Vehicle on road 829’ from DER, 373’ right of centerline, 15’ AGL/ 1134’ MSL.
Building 322’ from DER, 582’ right of centerline, 25’ AGL/ 1134’ MSL.
Rwy 13, trees beginning 1448’ from DER, 394’ right of centerline, up to 100’ AGL/ 1219’ MSL.
Vehicle on road 218’ from DER, 490’ left of centerline, 15’ AGL/ 1134’ MSL.
Building 78’ from DER, 397’ left of centerline, 25’ AGL/ 1134’ MSL.
Rwy 25, tree 3584’ from DER, 477’ left of centerline, 100’ AGL/ 1249’ MSL.
Rwy 31, tree 2992’ from DER, 715’ left of centerline, 100’ AGL/ 1239’ MSL.

MILLER, SD
MILLER MUNI (MKA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 25SEP08 (08269) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 15, vehicle on road 769’ from DER, 642’ right of centerline, 15’ AGL/1599’ MSL.
Snow removal equipment 206’ from DER, 475’ right of centerline, 21’ AGL/1594’ MSL.
Tree 3903’ from DER, 988’ left of centerline, 100’ AGL/1684’ MSL.
Rwy 33, vehicle on road 450’ from DER, 560’ left of centerline, 15’ AGL/1584’ MSL.
Tree 762’ from DER, 628’ left of centerline, 100’ AGL/1669’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

MINNEAPOLIS, MN
AIRLAKE (LVN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 03JUN10 (10154) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 12, ground 198' from DER, 0' AGL/963' MSL.
Tree and vehicle on road, beginning 422' from DER, 379' right of centerline, up to 15' AGL/978' MSL.
Tree 1291' from DER, 506' left of centerline, 62' AGL/1002' MSL.
Rwy 30, ground 104' from DER, 479' left of centerline, 0' AGL/965' MSL.
Tree, pole, and antenna on building beginning 171' from DER, 259' right of centerline, up to 50' AGL/1000' MSL.
Tree, railroad, and antenna on building 486' from DER, 268' left of centerline, up to 41' AGL/1001' MSL.
Trees and a building beginning 821' from DER, 30' right of centerline, up to 49' AGL/1009' MSL.

ANOKA COUNTY-BLAINE (JANES FIELD) (ANE) (CONT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 5B 17AUG17 (17229) (FAA)
TAKEOFF MINIMUMS;
Rwy 9, 300-1½ or std. w/min. climb of 205' per NM to 1200, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1200' prior to DER.
Rwy 18, 300-1 or std. w/min. climb of 370' per NM to 1200.
DEPARTURE PROCEDURE:
Rwy 9, climb heading 089° to 2200 before turning right.
Rwy 18, climb heading 179° to 2600 before turning left.
Rwy 27, climb heading 269° to 1700 before proceeding southeast bound.
Rwy 36, climb heading 359° to 1700 before proceeding southeast bound.
TAKEOFF OBSTACLE NOTES;
Rwy 9, tree 821' from DER, 618' right of centerline, 961' MSL.
Water tank 1.1 NM from DER, 1278' right of centerline, 170' AGL/1082' MSL.
Rwy 18, tree 7' from DER, 270' right of centerline, 908' MSL.
Trees beginning 70' from DER, 247' right of centerline, up to 912' MSL.
Tree 185' from DER, 390' left of centerline, 926' MSL.
Tree 447' from DER, 509' right of centerline, 930' MSL.
Trees beginning 769' from DER, 335' left of centerline, up to 954' MSL.
Tower 5016' from DER, 358' left of centerline, 962' MSL.

CRYSTAL (MIC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 10FEB11 (11041) (FAA)
TAKEOFF MINIMUMS;
Rwy 6R, 24L, NA - Environmental.
DEPARTURE PROCEDURE:
Rwy 6L, Climb heading 051° to 2400 before turning right.
Rwys 14L, 14R Climb heading 140° to 1900 before turning left.
TAKEOFF OBSTACLE NOTES;
Rwy 6L, multiple trees beginning 514' from DER, 35' left of centerline, up to 66' AGL/945' MSL.
Multiple trees beginning 836' from DER, 125' left of centerline, up to 61' AGL/940' MSL.
Rwy 14L, multiple trees, sign and pole beginning 46' from DER, 125' left of centerline, up to 61' AGL/940' MSL.
Multiple trees beginning 153' from DER, 4' right of centerline, up to 57' AGL/946' MSL.
Rwy 14R, multiple trees, pole, and sign beginning 51' from DER, 295' left of centerline, up to 61' AGL/940' MSL.
Multiple trees beginning 5' from DER, 110' right of centerline, up to 60' AGL/939' MSL.
Multiple trees, sign and hangar beginning 41' from DER, 132' right of centerline, up to 62' AGL/941' MSL.
Vehicles on road 903' from DER, 8' right of centerline, up to 17' AGL/896' MSL.
Rwy 24L, multiple trees beginning 342' from DER, 70' left of centerline, up to 79' AGL/958' MSL.
Multiple trees and sign beginning 70' from DER, 26' right of centerline, up to 81' AGL/960' MSL.
Vehicles on road beginning 390' from DER, 11' left of centerline, up to 15' AGL/984' MSL.
Power line 272' from DER, 443' left of centerline, 40' AGL/909' MSL.
Multiple hangars beginning 88' from DER, 326' left of centerline, up to 20' AGL/889' MSL.
Rwy 32R, multiple trees beginning 899' from DER, 50' left of centerline, up to 81' AGL/960' MSL.
Tree and sign beginning 77' from DER, 149' right of centerline, up to 70' AGL/950' MSL.
Vehicles on road beginning 537' from DER, 311' left of centerline, up to 15' AGL/894' MSL.
Multiple hangars beginning 355' from DER, 490' right of centerline, up to 30' AGL/899' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

MINNEAPOLIS, MN (CONT')
FLYING CLOUD (FCM)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 6 06FEB14 (14037) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 10L, tree, buildings, and poles beginning 78' from DER, 346' left of centerline, up to 45' AGL/945' MSL.
Vehicle on road, sign, and trees beginning 645' from DER, 442' right of centerline, up to 37' AGL/937' MSL.
Rwy 10R, buildings beginning 260' from DER, 321' right of centerline, up to 40' AGL/943' MSL.
Trees, poles, and general utility beginning 331' from DER, 106' right of centerline, up to 38' AGL/939' MSL.
Rwy 18, buildings beginning 212' from DER, 318' right of centerline, up to 34' AGL/938' MSL.
Vehicle on road 262' from DER, 195' left of centerline, 15' AGL/918' MSL.
Rwy 28R, tree, buildings, and general utility beginning 105' from DER, 353' right of centerline, up to 38' AGL/938' MSL.
Trees, buildings, poles, and windmill beginning 541' from DER, 302' left of centerline, up to 59' AGL/960' MSL.

MINNEAPOLIS-ST. PAUL INTL / WOLD-CHAMBERLAIN (MSP)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 12 02MAY13 (13122) (FAA)
TAKEOFF MINIMUMS:
Rwy 12L, 300-1½ or std. w/min. climb of 207' per NM to 1100, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1300' prior to DER.
Rwy 35, std. w/min. climb of 219' per NM to 2100.
DEPARTURE PROCEDURE:
Rwy 4, climb heading 045° to 2100 before turning left.
Rwys 30L, 30R, climb heading 301° to 2100 before turning right.
Rwy 35, climb heading 350° to 2100 before proceeding on course
TAKEOFF OBSTACLE NOTES:
Rwy 4, trees beginning 800' from DER, 301' left of centerline, up to 75' AGL/925' MSL.
Rwy 12L, tree 1.1 NM from DER, 1691' left of centerline, 92' AGL/991' MSL.
Light pole and camera on wall beginning 398' from DER, 561' right of centerline, up to 23' AGL/832' MSL.
Rwy 12R, trees beginning 1479' from DER, 561' left of centerline, 86' AGL/855' MSL.
Obstruction light on pole 1002' from DER, 753' left of centerline, 53' AGL/852' MSL.
Rwy 17, pole 409' from DER, 530' right of centerline, 29' AGL/866' MSL.
Buildings beginning 2619' from DER, 881' left of centerline, 97' AGL/918' MSL.
Building 1956' from DER, 904' left of centerline, 61' AGL/866' MSL.
Tree 2619' from DER, on centerline, 97' AGL/918' MSL.
Rwy 26, climb via heading 128° to 2200 before turning right.
Rwy 26, climb via heading 260° to 2300 before turning left.
TAKEOFF MINIMUMS:
Rwy 26, 300-1½ or std. with a min. climb of 219' per NM to 2000.
DEPARTURE PROCEDURE:
Rwy 13, climb via heading 128° to 2200 before turning right.
Rwy 26, climb via heading 260° to 2300 before turning left.
TAKEOFF OBSTACLE NOTES:
Rwy 8, fence 261' from DER, 415' right of centerline, 9' AGL/1669' MSL.
Rwy 26, poles beginning 952' from DER, 523' left of centerline, up to 42' AGL/1761' MSL.
Tower 1297' from DER, 405' right of centerline, 29' AGL/1751' MSL.
Sign 1372' from DER, 323' left of centerline, 31' AGL/1750' MSL.
Sign 1377' from DER, 832' right of centerline, 59' AGL/1778' MSL.
Light pole 1419' from DER, 24' right of centerline, 36' AGL/1752' MSL.
Trees beginning 1463' from DER, 73' right of centerline, up to 76' AGL/1795' MSL.
Building 1432' from DER, 303' right of centerline, 33' AGL/1753' MSL.
Tree 511' from DER, 807' right of centerline, 53' AGL/1772' MSL.
Tank 1.1 NM from DER, 1812' right of centerline, 140' AGL/1900' MSL.
Rwy 31, trees beginning 2908' from DER, 560' left of centerline, up to 64' AGL/1778' MSL.

MINOT, ND
MINOT INTL (MOT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3A 07APR11 (11097) (FAA)
TAKEOFF MINIMUMS:
Rwy 26, 300-1½ or std. with a min. climb of 219' per NM to 2000.
DEPARTURE PROCEDURE:
Rwy 13, climb via heading 128° to 2200 before turning right.
Rwy 26, climb via heading 260° to 2300 before turning left.
TAKEOFF OBSTACLE NOTES:
Rwy 8, fence 261' from DER, 415' right of centerline, 9' AGL/1669' MSL.
Rwy 26, poles beginning 952' from DER, 523' left of centerline, up to 42' AGL/1761' MSL.
Tower 1297' from DER, 405' right of centerline, 29' AGL/1751' MSL.
Sign 1372' from DER, 323' left of centerline, 31' AGL/1750' MSL.
Sign 1377' from DER, 832' right of centerline, 59' AGL/1778' MSL.
Light pole 1419' from DER, 24' right of centerline, 36' AGL/1752' MSL.
Trees beginning 1463' from DER, 73' right of centerline, up to 76' AGL/1795' MSL.
Building 1432' from DER, 303' right of centerline, 33' AGL/1753' MSL.
Tree 511' from DER, 807' right of centerline, 53' AGL/1772' MSL.
Tank 1.1 NM from DER, 1812' right of centerline, 140' AGL/1900' MSL.
Rwy 31, trees beginning 2908' from DER, 560' left of centerline, up to 64' AGL/1778' MSL.
MITCHELL, SD
MITCHELL MUNI (MHE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 10DEC15 (15344) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 18, trees beginning 829' from DER, 505' right of centerline, up to 80' AGL/1386' MSL.
NAVAID 119' from DER, 409' left of centerline, 9' AGL/1308' MSL.
Rwy 36, trees beginning 552' from DER, 575' right of centerline, up to 80' AGL/1328' MSL.
NAVAIDs beginning 34' from DER, 100' right and left of centerline, up to 3' AGL/1286' MSL.

MOBRIDGE, SD
MOBRIDGE MUNI (MBG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 30JUN11 (11181) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 17, trees beginning 829' from DER, 505' right of centerline, up to 80' AGL/1386' MSL.
NAVAID 119' from DER, 409' left of centerline, 9' AGL/1308' MSL.
Rwy 36, trees beginning 552' from DER, 575' right of centerline, up to 80' AGL/1328' MSL.
NAVAIDs beginning 34' from DER, 100' right and left of centerline, up to 3' AGL/1286' MSL.

MOHALL, ND
HOHALL MUNI (HBC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 20OCT11 (11293) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 13, vehicles on roadway, 361' from DER, left and right of centerline, up to 15' AGL/1664' MSL.

MONTEVIDEO, MN
MONTEVIDEO-CHIPPEWA COUNTY (MVE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 20AUG15 (15232) (FAA)
TAKEOFF MINIMUMS:
Rwy 3, 21, NA-Environmental.
DEPARTURE PROCEDURE:
Rwy 14, climb runway heading to 1500 before turning.

MOORHEAD, MN
MOORHEAD MUNI (JKJ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 20OCT11 (11293) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 12, building 263' from DER, 495' left of centerline, 15' AGL/932' MSL.
Tree 657' from DER, 449' left of centerline, 114' AGL/1031' MSL.
Trees 1463' from DER, 711' left of centerline, up to 69' AGL/986' MSL.
Poles beginning 368' from DER, left and right of centerline, up to 48' AGL/965' MSL.
Poles beginning 1342' from DER, 855' right of centerline, up to 55' AGL/969' MSL.

MOOSE LAKE, MN
MOOSE LAKE CARLTON COUNTY (MZM)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 06JAN94 (94006) (FAA)
TAKEOFF MINIMUMS:
Rwys 4, 22, 300-1.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

MORA, MN
MORA MUNI (JMR)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 24MAY18 (18144) (FAA)
TAKEOFF MINIMUMS:
Rwys 11, 29, NA - environmental.
TAKEOFF OBSTACLE NOTES:
  Rw 17, light pole 16' from DER, 17' right of centerline, 3' AGL/1012' MSL.
  Terrain 27' from DER, 311' from DER, 1012' MSL.
  Vehicle on road, building, and trees beginning 162' from DER, 410' right of centerline, up to 33' AGL/1034' MSL.
  Trees beginning 208' from DER, 443' left of centerline, up to 44' AGL/1045' MSL.
  Trees beginning 644' from DER, 455' right of centerline, up to 53' AGL/1054' MSL.
  Trees beginning 864' from DER, 178' right of centerline, up to 76' AGL/1068' MSL.
  Trees beginning 1055' from DER, 37' left of centerline, up to 62' AGL/1063' MSL.
  Trees beginning 1619' from DER, 491' right of centerline, up to 72' AGL/1074' MSL.
  Tree 1975' from DER, 405' left of centerline, 68' AGL/1069' MSL.
  Tree 2054' from DER, 2' right of centerline, 68' AGL/1069' MSL.
  Trees beginning 2237' from DER, crossing centerline, up to 88' AGL/1089' MSL.
  Trees beginning 2645' from DER, 777' right of centerline, up to 89' AGL/1105' MSL.
  Terrain 168' from DER, 290' left of centerline, up to 1018' MSL.
  Terrain, vehicle on road, and trees beginning 349' from DER, 387' right of centerline, up to 58' AGL/1059' MSL.
  Trees beginning 441' from DER, 388' left of centerline, up to 46' AGL/1057' MSL.
  Trees beginning 634' from DER, 354' left of centerline, up to 70' AGL/1071' MSL.
  Trees beginning 617' from DER, 427' right of centerline, up to 66' AGL/1067' MSL.
  Trees beginning 1032' from DER, 267' left of centerline, up to 68' AGL/1086' MSL.
  Trees beginning 1563' from DER, 582' right of centerline, up to 61' AGL/1072' MSL.
  Trees 1791' from DER, 964' left of centerline, 66' AGL/1097' MSL.
  Trees beginning 2205' from DER, crossing centerline, up to 73' AGL/1104' MSL.

MORRIS, MN
MORRIS MUNI-CHARLIE SCHMIDT FLD (MOX)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 14FEB08 (08045) (FAA)
TAKEOFF MINIMUMS:
Rwys 4, 22, NA-Environmental.
TAKEOFF OBSTACLE NOTES:
  Rw 32, Trees 2888' from DER, 1125' left of centerline, 100' AGL/1209' MSL.

NEW ULM, MN
NEW ULM MUNI (ULM)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 17SEP15 (15260) (FAA)
TAKEOFF MINIMUMS:
Rwys 4, 22, NA-Environmental.
TAKEOFF OBSTACLE NOTES:
  Rw 32, Trees 2888' from DER, 1125' left of centerline, 100' AGL/1209' MSL.

NORTHWOOD, ND
NORTHWOOD MUNI-VINCE FIELD (4V4)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 09FEB12 (12040) (FAA)
TAKEOFF MINIMUMS:
Rwys 11, 19, NA - environmental.
TAKEOFF OBSTACLE NOTES:
  Rw 8, Trees beginning 3317' from DER, 737' left of centerline, up to 100' AGL/1214' MSL.
  Rw 26, Trees beginning 1171' from DER, left and right of centerline, up to 100' AGL/1214' MSL.

OAKES, ND
OAKES MUNI (2D5)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 26APR18 (18116) (FAA)
TAKEOFF MINIMUMS:
Rwys 17, 35, NA - Environmental.
TAKEOFF OBSTACLE NOTES:
  Rw 12, Trees beginning 2071' from DER, left and right of centerline, up to 100' AGL/1459' MSL.
  Rw 30, Trees beginning 2509' from DER, 744' left of centerline, up to 100' AGL/1454' MSL.

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

OLIVIA, MN
OLIVIA RGNL (OVL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 13FEB86 (86044) (FAA)
TAKEOFF MINIMUMS:
   Rwy 11, 300-1.

ONIDA, SD
ONIDA MUNI (98D)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 01FEB18 (18032) (FAA)
TAKEOFF MINIMUMS:
   Rwy 8, 26, NA - environmental.
   Rwy 13, 300-1½ or std. w/min. climb gradient of 250 feet per NM to 2500.
TAKEOFF OBSTACLE NOTES:
   Rwy 13, light pole 10' from DER, 10' left of centerline, 2' AGL/1887' MSL.
   Light pole 10' from DER, 10' right of centerline, 3' AGL/1887' MSL.
   Rwy 31, light pole 11' from DER, 10' right of centerline, 3' AGL/1864' MSL.
   Light pole 11' from DER, 11' left of centerline, 3' AGL/1863' MSL.

ORR, MN
ORR RGNL (ORB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 31MAY12 (12152) (FAA)
TAKEOFF MINIMUMS:
   Rwy 13, 300-1½ or std. w/ min. climb of 260' per NM to 1600.
DEPARTURE PROCEDURE:
   Rwy 13, climb heading 136° to 1900 before turning right.
TAKEOFF OBSTACLE NOTES:
   Rwy 13, trees beginning 630' from DER, 476' right of centerline, up to 80' AGL/1389' MSL.
   Trees beginning 759' from DER, 361' left of centerline, up to 80' AGL/1459' MSL.
   Trees beginning 1.1 NM from DER, 1343' right of centerline, up to 80' AGL/1499' MSL.
   Rwy 31, trees beginning 366' from DER, 162' left of centerline, up to 80' AGL/1429' MSL.
   Trees beginning 540' from DER, 148' right of centerline, up to 80' AGL/1449' MSL.

ORTONVILLE, MN
ORTONVILLE MUNI-MARTINSON FIELD (VVV)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 01OCT81 (81274) (FAA)
TAKEOFF MINIMUMS:
   Rwy 16, 300-1 or std. with a min. climb of 210' per NM to 1300.

OWATONNA, MN
OWATONNA DEGNER RGNL (OWA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 30JAN97 (97030) (FAA)
DEPARTURE PROCEDURE:
   Rwy 12, climb runway heading to 1500 before turning on course.

PARK RAPIDS, MN
PARK RAPIDS MUNI-KONSKHOK FIELD (PKD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 23JUN16 (16175) (FAA)
DEPARTURE PROCEDURE:
   Rwy 36, climb heading 356° to 2000 before turning right.
TAKEOFF OBSTACLE NOTES:
   Rwy 13: Pole 880' from DER, 711' left of centerline, 26' AGL/1467' MSL.
   Rwy 18: Trees beginning 1371' from DER, left and right of centerline, up to 1549' MSL.
   Trees beginning 3080' from DER, right and left of centerline, up to 1539' MSL.
   Trees beginning 559' from DER, right and left of centerline, up to 1462' MSL.
   Trees beginning 359' from DER, 454' right of centerline, up to 1468' MSL.
   Trees beginning 799' from DER, 236' left of centerline, up to 1479' MSL.
   Trees beginning 854' from DER, 296' right of centerline, up to 1476' MSL.
   Rwy 36: Trees and buildings beginning 575' from DER, left and right of centerline, up to 1549' MSL.
   Trees beginning 2902' from DER, 95' right of centerline, up to 1559' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

PARKSTON, SD
PARKSTON MUNI (8V3)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 17OCT13 (13290) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 15, poles beginning 628' from DER, left and right of centerline, up to 37' AGL/1452' MSL.
Transmission towers beginning 758' from DER, left and right of centerline, up to 29' AGL/1444' MSL.
Train on railroad, 777' from DER, 573' left of centerline, 24' AGL/1439' MSL.
Building 1189' from DER, 694' left of centerline, 35' AGL/1450' MSL.
Trees beginning 1227' from DER, 268' left of centerline, up to 36' AGL/1459' MSL.

Rwy 33, trees beginning 300' from DER, left and right of centerline, up to 63' AGL/1478' MSL.
Poles beginning 862' from DER, left and right of centerline, up to 48' AGL/1463' MSL.
Transmission towers beginning 896' from DER, left and right of centerline, up to 44' AGL/1459' MSL.
Lighted support structures beginning 1076' from DER, left and right of centerline, up to 48' AGL/1463' MSL.
Fences beginning 17' from DER, left and right of centerline, up to 6' AGL/1421' MSL.
Silo, 1677' from DER, 43' AGL/1458' MSL. Vehicle on road, 54' from DER, 14' AGL/1459' MSL.

PAYNESVILLE, MN
PAYNESVILLE MUNI (PEX)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 08NOV18 (18312) (FAA)
TAKEOFF MINIMUMS:
Rwy 11, 300-1 ⅞ or std. w/min. climb of 234' per NM to 1600.
Rwy 29, 300-1 ⅞ or std. w/min. climb of 210' per NM to 1500.

TAKEOFF OBSTACLE NOTES:
Rwy 11, trees beginning 61' from DER, 482' right of centerline, up to 1231' MSL.
Tree 3539' from DER, 1234' right of centerline, 1309' MSL.
Tower 1.5 NM from DER, 1956' left of centerline, 184' AGL/1456' MSL.
Tower 1.5 NM from DER, 1318' left of centerline, 193' AGL/1458' MSL.
Rwy 29, tree 1951' from DER, 990' right of centerline, 1240' MSL.
Power lines 1.3 NM from DER, 2625' left of centerline, 200' AGL/1399' MSL.

PEMBINA, ND
PEMBINA MUNI (PMB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 21NOV85 (85325) (FAA)
DEPARTURE PROCEDURE:
Rwy 33, climb runway heading 3200 before turning left.

PERHAM, MN
PERHAM MUNI (16D)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 22AUG13 (13234) (FAA)
DEPARTURE PROCEDURE:
Rwy 13, climb heading 128° to 1900 before turning left.

TAKEOFF OBSTACLE NOTES:
Rwy 13, REILs 8' from DER, 79' right of centerline, 2' AGL/1373' MSL.
Trees beginning 6' from DER, 350' right of centerline, up to 50' AGL/1386' MSL and trees beginning 138' from DER, 115' right of centerline, up to 50' AGL/1433' MSL.
Light 8' from DER, 79' left of centerline, 2' AGL/1373' MSL.
Trees beginning 261' from DER, 251' left of centerline, up to 50' AGL/1387' MSL.
Rwy 31, REILs 9' from DER, 79' right of centerline, 2' AGL/1378' MSL.
Ground 8' from DER, 223' right of centerline, 1377' MSL.
Poles and tower beginning 627' from DER, 570' right of centerline, up to 43' AGL/1430' MSL.
Light, 8' from DER, 79' left of centerline, 2' AGL/1377' MSL.
Vehicles on road beginning 431' from DER, 32' left of centerline, up to 18' AGL/1394' MSL.
Trees, pole, and building beginning 93' from DER, 377' left of centerline, up to 50' AGL/1409' MSL.

PHILIP, SD
PHILIP (PHP)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 06FEB14 (14037) (FAA)
TAKEOFF MINIMUMS:
Rwys 5, 23, NA-Environmental.

TAKEOFF OBSTACLE NOTES:
Rwy 12, tree and fence beginning 2' from DER, 334' right of centerline, up to 25' AGL/2204' MSL.
Sign, fence and trees beginning 27' from DER, 127' left of centerline, up to 30' AGL/2212' MSL.
Rwy 30, fence beginning 174' from DER, 286' left of centerline, up to 10' AGL/2219' MSL.
Fence and vehicles on road beginning 3' from DER, 448' right of centerline, up to 15' AGL/2219' MSL.
Poles beginning 950' from DER, 308' right of centerline, up to 36' AGL/2250' MSL.
Terrain beginning 2598' from DER, 251' right of centerline, up to 2277' MSL.
Road beginning 4019' from DER, 1413' right of centerline, up to 15' AGL/2332' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

PIERRE, SD
PIERRE RGNL (PIR)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 25APR85 (85115) (FAA)
TAKEOFF MINIMUMS:
Rwy 25, 300-1.

PINE RIDGE, SD
PINE RIDGE (IEN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 26JUL12 (12208) (FAA)
TAKEOFF MINIMUMS:
Rwy 6, 24, NA- closed indefinitely.
Rwy 12, 300-1 or std. w/min. climb of 450' per NM to 3700.
Rwy 30, 300-1 or std. climb of 407' per NM to 3600.
TAKEOFF OBSTACLE NOTES:
Rwy 12, vehicle on road 10' from DER, left to right of centerline, 15' AGL/3347' MSL.
Fence 200' from DER, 350' right of centerline, 10' AGL/3338' MSL.
Rwy 30, tree 630' from DER, 492' right of centerline, 50' AGL/3339' MSL.
Vehicle on road 10' from DER, right of centerline, 15' AGL/3316' MSL.
Vehicle on road 407' from DER, right to left of centerline, 15' AGL/3313' MSL.

PINECREEK, MN
PINEY PINECREEK BORDER (48Y)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 15NOV12 (12320) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 15, poles beginning 459' from DER, 415' left of centerline, up to 32' AGL/1092' MSL.
Airfield light 8' from DER, 45' right of centerline, 8' AGL/1068' MSL.
Vehicle on road 900' from DER, left and right of centerline, 15' AGL/1078' MSL.
Rwy 33, trees beginning 11' from DER, 47' left of centerline, up to 100' AGL/1084' MSL.
Trees beginning 16' from DER, 406' right of centerline, up to 100' AGL/1101' MSL.

PINE RIVER, MN
PINE RIVER RGNL (PWC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 08MAR12 (12068) (FAA)
TAKEOFF MINIMUMS:
Rwy 16, 300-1½ or std. w/min. climb gradient of 218' per NM to 1500.
DEPARTURE PROCEDURE:
Rwy 16, climb heading 160° to 1800 before turning right.
TAKEOFF OBSTACLE NOTES:
Rwy 16, trees 2' from DER, 181' right of centerline, up to 5' AGL/1296' MSL.
Trees beginning 10' from DER, 113' left of centerline, up to 67' AGL/1366' MSL.
Road beginning 63' from DER, 381' right of centerline, up to 15' AGL/1310' MSL.
Poles beginning 611' from DER, 424' right of centerline, 26' AGL/1325' MSL.
REIL 50' from DER, 77' left of centerline, 7' AGL/1298' MSL.
Trees beginning 1267' from DER, 15' right of centerline, up to 100' AGL/1449' MSL.
Trees beginning 1059' from DER, left and right of centerline, up to 101' AGL/1400' MSL.
REIL 50' from DER, 77' left of centerline, 7' AGL/1298' MSL.
Poles beginning 522' from DER, 520' left of centerline, up to 35' AGL/1334' MSL.
Buildings beginning 373' from DER, 465' left of centerline, up to 18' AGL/1327' MSL.

PIECESTONE, MN
PIPESTONE MUNI (PQN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 14FEB08 (08045) (FAA)
TAKEOFF MINIMUMS:
Rwys 9,27, NA-Environmental.
TAKEOFF OBSTACLE NOTES:
Rwy 18, Trees beginning 3811' from DER, 854' right of centerline, up to 100' AGL/1859' MSL.

PRESTON, MN
FILLMORE COUNTY (FKA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 23APR98 (98113) (FAA)
TAKEOFF MINIMUMS:
Rwys 11,29, 300-1.
PRINCETON, MN
PRINCETON MUNI (PNM)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 12MAY05 (05132) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 15, trees 982' from DER, 335' right of centerline, 50' AGL/1029' MSL.
Trees 1449' from DER, 387' left of centerline, 50' AGL/1029' MSL.
Rwy 33, barn 1159' from DER, 780' right of centerline, 50' AGL/1139' MSL, multiple trees, terrain, and road beginning
36' from DER, 84' right of centerline, up to 50' AGL/1045' MSL.

RAPID CITY, SD
RAPID CITY RGNL (RAP)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 7 10MAR11 (11069) (FAA)
DEPARTURE PROCEDURE:
Rwy 5, climb on heading between 255° CW to 210° from DER, or min. climb of 240' per NM to 8800 for all other
courses.
Rwy 14, climb on heading between 325° CW to 210° from DER, or min. climb of 245' per NM to 8900 for all other
courses.
Rwy 23, climb on heading between 210° CCW to 055° from DER, or min. climb of 245'  per NM to 8900 for all other
courses.
Rwy 32, climb on heading 324° to 3700 for courses between 255° CW to 140° from DER, or min. climb of 244' per
NM to 8800 for all other courses.
TAKEOFF OBSTACLE NOTES:
Rwy 5, fence 132' from DER, 249' left of centerline, up to 13' AGL/3215' MSL.
Trees beginning 16' from DER, 188' right of centerline, up to 25' AGL/3234' MSL.
Trees beginning 11' from DER, 111' left of centerline, up to 25' AGL/3234' MSL.
Rwy 14, trees beginning 136' from DER, 123' right of centerline, up to 25' AGL/3174' MSL.
Trees beginning 33' from DER, 229' left of centerline, up to 25' AGL/3164' MSL.
Rwy 23, vehicle on road 36' from DER, 121' left of centerline, up to 15' AGL/3175' MSL.
Hanger 201' from DER, 298' left of centerline, up to 30' AGL/3193' MSL.
Fence 333' from DER, 255' right of centerline, up to 14' AGL/3184' MSL.
Trees beginning 195' from DER, 175' right of centerline, up to 25' AGL/3194' MSL.
Trees beginning 158' from DER, 159' left of centerline, up to 25' AGL/3194' MSL.
Rwy 32, fence 1001' from DER, 750' right of centerline, up to 13' AGL/3233' MSL.
Obstruction light 661' from DER, 242' left of centerline, up to 43' AGL/3213' MSL.
Trees beginning 31' from DER, 262' right of centerline, up to 25' AGL/3254' MSL.
Trees beginning 61' from DER, 146' left of centerline, up to 25' AGL/3204' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)
ORIG 12OCT17 (17285) (FAA)
Rwy 32, heading as assigned by ATC.

RAY S. MILLER AAF (KRYM)
CAMP RIPLEY, MN
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 04JUN09 (09155) (FAA)
TAKEOFF OBSTACLES:
Rwy 13, Terrain 1270' MSL, 73' from DER, 8' left and right of centerline.
Vehicle 15' AGL/1180' MSL, 765' from DER, 638' left of centerline.
Rwy 31, Terrain 1273' MSL, 54' from DER, 9' left and right of centerline.
Trees 64' AGL/1282' MSL, 798' from DER, 325' left and right of centerline.

RED WING, MN
RED WING RGNL (RGK)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2A 13SEP18 (18256) (FAA)
TAKEOFF MINIMUMS:
Rwy 9, std. w/min. climb of 339' per NM to 1700.
TAKEOFF OBSTACLE NOTES:
Rwy 9, NAVAID 51' from DER, 75' left of centerline, 14' AGL/778' MSL.
Trees beginning 273' from DER, 457' left of centerline, up to 787' MSL.
Tree 523' from DER, 427' left of centerline, 790' MSL.
Pole beginning 1079' from DER, 554' left of centerline, up to 37' AGL/812' MSL.
Tree 1334' from DER, 332' right of centerline, 823' MSL.
Tree 1369' from DER, 384' left of centerline, 816' MSL.
Trees beginning 1383' from DER, 480' left of centerline, up to 820' MSL.
Tree 1413' from DER, 771' right of centerline, 824' MSL.
Trees beginning 1487' from DER, 264' right of centerline, up to 826' MSL.
Trees beginning 1911' from DER, 429' right of centerline, up to 835' MSL.
Trees beginning 1.2 NM from DER, 2172' left of centerline, up to 1032' MSL.

CONT
RED WING, MN
RED WING RGNL (RGK)
Rwy 9 (CON'T), tree 1.2 NM from DER, 2019' left of centerline, 1039' MSL.
Trees beginning 1.3 NM from DER, 1731' left of centerline, up to 1103' MSL.
Tree, vehicles, terrain beginning 1.3 NM from DER, 3' left of centerline, up to 1119' MSL.
Tree 1.6 NM from DER, 89' right of centerline, 1088' MSL.
Trees beginning 1.6 NM from DER, 36' right of centerline, up to 1097' MSL.
Trees beginning 1.6 NM from DER, 33' right of centerline, up to 1099' MSL.
Trees beginning 1.8 NM from DER, 9' left of centerline, up to 1120' MSL.
Trees beginning 1.8 NM from DER, 176' right of centerline, up to 1108' MSL.
Tree 1.9 NM from DER, 20' right of centerline, 1123' MSL.
Trees beginning 2 NM from DER, 13' left of centerline, up to 1127' MSL.
Trees beginning 2 NM from DER, 24' right of centerline, up to 1125' MSL.
Trees beginning 2 NM from DER, 12' right of centerline, up to 1130' MSL.
Tree 2.1 NM from DER, 1401' right of centerline, 1134' MSL.
Building, tree beginning 2.2 NM from DER, 307' right of centerline, up to 68' AGL/1139' MSL.
Trees beginning 2.2 NM from DER, 7' left of centerline, up to 1162' MSL.
Tree 2.2 NM from DER, 17' right of centerline, 1152' MSL.
Tree 2.5 NM from DER, 1342' right of centerline, 1192' MSL.

Rwy 27, vehicles beginning 12' from DER, 33' right of centerline, up to 807' MSL.
Trees beginning 379' from DER, 510' right of centerline, up to 800' MSL.
Tree 2290' from DER, 1034' left of centerline, 838' MSL.

REDWOOD FALLS, MN
REDWOOD FALLS MUNI (RWF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 12MAR09 (090701) (FAA)
TAKEOFF MINIMUMS:
Rwys 5, 23, NA-Environmental.

TAKEOFF OBSTACLE NOTES:
Rwy 12, numerous buildings beginning 388' from DER, 376' right of centerline, up to 13' AGL/1052' MSL.
Numerous fences beginning 6' from DER, 329' right of centerline, up to 13' AGL/1052' MSL.
Tree 62' from DER, 444' left of centerline, 11' AGL/1040' MSL.
Rwy 30, multiple trees beginning 865' from DER, 401' right of centerline, up to 100' AGL/1119' MSL.

ROCHESTER, MN
ROCHESTER INTL (RST)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 15JAN09 (090015) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 2, road 73' from DER, 385' right of centerline, 10' AGL/1292' MSL.
Tree 4377' from DER, 1132' right of centerline, 100' AGL/1399' MSL.
Road 268' from DER, 366' right of centerline, 10' AGL/1290' MSL.
Rwy 13, tree 1498' from DER, 840' right of centerline, 44' AGL/1348' MSL.
Rwy 20, pole 289' from DER, 23' right of centerline, 23' AGL/1338' MSL.
Roads beginning 1' from DER, 231' right of centerline, up to 10' AGL/1327' MSL.
Rwy 31, tree 4760' from DER, 1103' left of centerline, 100' AGL/1389' MSL.

ROLLA, ND
ROLLA MUNI (06D)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 13JAN11 (110113) (FAA)
TAKEOFF MINIMUMS:
Rwys 7, 25, NA-Environmental.

TAKEOFF OBSTACLE NOTES:
Rwy 14, vehicle on road 49' from DER, 23' left of centerline, 15' AGL/1830' MSL.
Trees beginning 1232' from DER, 209' left of centerline, up to 80' AGL/1867' MSL.
Rwy 32, trees beginning 2207' from DER, 59' left of centerline, up to 80' AGL/1929' MSL.
Trees beginning 651' from DER, 80' right of centerline, up to 80' AGL/1939' MSL.

ROSEAU, MN
ROSEAU MUNI-RUDY BILLBERG FIELD (ROX)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 30AUG07 (072422) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 16, building 258' from DER, 505' right of centerline, 24' AGL/1078' MSL.
Tree 1582' from DER, 337' left of centerline, 47' AGL/1101' MSL.
Rwy 34, truck on road 41' from DER, 511' left of centerline, 15' AGL/1069' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

ROSEBUD, SD
ROSEBUD SIOUX TRIBAL (SUO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 07DEC17 (17341) (FAA)
TAKEOFF MINIMUMS:
Rwy 16, 300-1 ¾ or std. w/min. climb gradient of 240’ per NM to 3500 or 1300-3 for VCOA.
DEPARTURE PROCEDURE:
Rwy 16, climb heading 177° to 3500 before turning left.
VCOA:
Rwy 16, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Rosebud Sioux Tribal Airport at or above 3900 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 16, light 10’ from DER, 18’ right of centerline, 2’ AGL/2725’ MSL.
Light 10’ from DER, 17’ left of centerline, 2’ AGL/2725’ MSL.
Fence 867’ from DER, 184’ left of centerline, 10’ AGL/2751’ MSL.
Ground 1256’ from DER, 679’ left of centerline, 2795’ MSL.
Secondary Rd 1526’ from DER, 809’ left of centerline, 2807’ MSL.
Tree 1770’ from DER, 882’ left of centerline, 2818’ MSL.
Rwy 34, light 10’ from DER, 17’ right of centerline, 2’ AGL/2684’ MSL.
Light 10’ from DER, 18’ left of centerline, 2’ AGL/2685’ MSL.
Ground 448’ from DER, 213’ right of centerline, 2695’ MSL.
Ground 493’ from DER, 40’ right of centerline, 2697’ MSL.
Ground 496’ from DER, 108’ right of centerline, 2697’ MSL.
Ground 504’ from DER, 8’ left of centerline, 2698’ MSL.
Bush 555’ from DER, 166’ right of centerline, 2698’ MSL.
Ground 556’ from DER, 107’ left of centerline, 2698’ MSL.
Fence 623’ from DER, 110’ left of centerline, 3’ AGL/2698’ MSL.

RUGBY, ND
RUGBY MUNI (RUG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 24JUL14 (14205) (FAA)
TAKEOFF MINIMUMS:
Rwy 12, 300-1½ or std. w/min. climb of 300’ per NM to 2000.
TAKEOFF OBSTACLE NOTES:
Rwy 12, trees beginning 1186’ from DER, 432’ left of centerline, up to 67’ AGL/1620’ MSL.
Elevators beginning 1.4 NM from DER, 819’ right of centerline, up to 246’ AGL/1804’ MSL.
Rwy 30, edge light 11’ from DER, 9’ right of centerline, 1’ AGL/1534’ MSL.

RUSH CITY, MN
RUSH CITY RGNL (ROS)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 10FEB11 (11041) (FAA)
TAKEOFF MINIMUMS:
Rwy 16, multiple trees beginning 27’ from DER, 315’ left of centerline, up to 100’ AGL/ 969’ MSL.
Multiple trees beginning 838’ from DER, 226’ right of centerline, up to 100’ AGL/ 997’ MSL.
Pole 1712’ from DER, 811’ left of centerline, 50’ AGL/ 970’ MSL.
Rwy 34, trees 91’ from DER, 472’ left of centerline, 100’ AGL/ 939’ MSL.
Trees 1173’ from DER, 375’ right of centerline, 100’ AGL/ 1029’ MSL.
Trees 2250’ from DER, 928’ left of centerline, 100’ AGL/ 1009’ MSL.

RUSHFORD, MN
RUSHFORD MUNI-ROBERT W BUNKE FIELD (55Y)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2A 01FEB18 (18032) (FAA)
DEPARTURE PROCEDURE:
Rwy 16, climb heading 161° to 1800 before turning left.
TAKEOFF OBSTACLE NOTES:
Rwy 16, trees beginning 132’ from DER, 448’ left of centerline, up to 100’ AGL/1280’ MSL.
Trees beginning 899’ from DER, 685’ right of centerline, up to 100’ AGL/1319’ MSL.
Rwy 34, Trees beginning 308’ from DER, 147’ right of centerline, up to 100’ AGL/1299’ MSL.
Trees beginning 761’ from DER, 34’ left of centerline, up to 100’ AGL/1319’ MSL.
Trees beginning 1169’ from DER, 23’ right of centerline, up to 100’ AGL/1344’ MSL.
TAME TOE MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

ST. CLOUD, MN
ST. CLOUD RGNL (STC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 27AUG09 (09239) (FAA)
TAKEOFF MINIMUMS:
Rwy 5, 300-1/4 or std. w/ min. climb of 201’ per NM to 1300 or alternatively, with standard TAKEOFF minimums and a normal 200’/NM climb gradient, TAKEOFF must occur no later than 1100’ prior to DER.
TAKEOFF OBSTACLE NOTES:
Rwy 5, tower 6201’ from DER, 149’ AGL/1179’ MSL.
Multiple trees beginning 17’ from DER, 373’ right of centerline, up to 149’ AGL/1179’ MSL.
Multiple trees beginning 1752’ from DER, 373’ right of centerline, up to 149’ AGL/1179’ MSL.
Rwy 13, tree 1654’ from DER, 884’ right of centerline, up to 149’ AGL/1179’ MSL.
Tree 1265’ from DER, 794’ left of centerline, 1179’ MSL.
Rwy 23, trees 2109’ from DER, 29’ right of centerline, up to 1179’ MSL.
Trees 1725’ from DER, 93’ left of centerline, up to 1179’ MSL.
Fence 74’ from DER, 216’ left of centerline, 1203’ MSL.
Rwy 31, terrain beginning 29’ from DER, 50’ right of centerline, up to 1083’ MSL.
Terrain beginning 107’ from DER, 7’ left of centerline, up to 1060’ MSL.

ST. JAMES, MN
ST. JAMES MUNI (JYG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 24MAY18 (18144) (FAA)
DEPARTURE PROCEDURE:
Rwy 15, climb to 1900 on heading 148° before turning eastbound.
TAKEOFF OBSTACLE NOTES:
Rwy 15, pole 8’ from DER, 78’ left of centerline, 4’ AGL/1063’ MSL.
Tree 58’ from DER, 379’ left of centerline, 1072’ MSL.
Pole 1489’ from DER, 611’ left of centerline, 41’ AGL/1112’ MSL.
Tree, pole beginning 1510’ from DER, 309’ left of centerline, up to 1133’ MSL.
Tree 2209’ from DER, 79’ right of centerline, 1124’ MSL.
Trees beginning 2834’ from DER, 6’ right of centerline, up to 1133’ MSL.
Tree 2849’ from DER, 6’ right of centerline, 1145’ MSL.
Tree 2937’ from DER, 5’ left of centerline, 1142’ MSL.
Rwy 33, pole 11’ from DER, 78’ left of centerline, 3’ AGL/1063’ MSL.
Pole 11’ from DER, 78’ right of centerline, 3’ AGL/1063’ MSL.
Tree 120’ from DER, 326’ left of centerline, 1066’ MSL.
Trees beginning 2030’ from DER, 911’ left of centerline, up to 1134’ MSL.

ST. PAUL MN
LAKE ELMO (21D)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 28MAY15 (15148) (FAA)
TAKEOFF MINIMUMS:
Rwy 14, 400-2/4 or std. w/min. climb of 233’ per NM to 1400.
DEPARTURE PROCEDURE:
Rwy 4, climb heading 038° to 1600 before turning right.
TAKEOFF OBSTACLE NOTES:
Rwy 4, trees beginning at DER, 458’ right of centerline, up to 100’ AGL/1039’ MSL.
Trees and buildings beginning 94’ from DER, 377’ left of centerline up to 100’ AGL/1049’ MSL.
Rwy 14, trees and vehicles on road beginning 152’ from DER, left and right of centerline, up to 100’ AGL/933’ MSL.
Trees beginning 1106’ from DER, right and left of centerline, up to 100’ AGL/1005’ MSL.
Rwy 22, buildings and pole beginning 100’ from DER, 476’ right of centerline, up to 39’ AGL/962’ MSL.
Trees beginning 1912’ from DER, left and right of centerline, up to 100’ AGL/986’ MSL.
Rwy 32, sign 13’ from DER, 154’ right of centerline, 3’ AGL/924’ MSL.
Pole 388’ from DER, 388’ left of centerline, 34’ AGL/951’ MSL.
Poles and trees beginning 876’ from DER, 73’ right of centerline, up to 100’ AGL/1004’ MSL.
ST. PAUL MN (CON’T)
ST. PAUL DOWNTOWN HOLMAN FIELD (STP)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 8A 17AUG17 (17229) (FAA)
TAKEOFF MINIMUMS:
Rwy 31, NA - obstacles.
Rwy 3, std. w/min. climb of 340’ per NM to 1300.
Rwy 13, std. w/min. climb of 235’ per NM to 1500.
Rwy 27, 600-2 or std. w/min. climb of 442’ per NM to 1500.
Rwy 32, w/min. climb of 340’ per NM to 3000.

DEPARTURE PROCEDURE:
Rwy 9, climb heading 091° to 1400 before proceeding on course.
Rwy 13, climb heading 128° to 1300 before proceeding on course.
Rwy 14, climb heading 146° to 1400 before proceeding on course.
Rwy 27, climb heading 271° to 1700 before proceeding on course.
Rwy 32, climbing 236° to 1400 before proceeding on course.

TAKEOFF OBSTACLE NOTES:
Rwy 9, mobile crane 1362’ from DER, 124’ left of centerline, 68’ AGL/758’ MSL.
Trees and silo 1464’ from DER, 178’ right of centerline, up to 116’ AGL/816’ MSL.

Rwy 13, tree and tower beginning 1125’ from DER, 609’ left of centerline, up to 67’ AGL/767’ MSL.
Tree, pole, on building, stacks, and ol on stack beginning 1672’ from DER, 55’ right of centerline, up to 120’ AGL/820’ MSL.

Rwy 32, vehicle on road, railroad, and trees beginning 179’ from DER, 267’ right of centerline, up to 58’ AGL/758’ MSL.

SAUK CENTRE, MN
SAUK CENTRE MUNI (D39)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 25AUG11 (11237) (FAA)
TAKEOFF MINIMUMS:
Rwys 8, 26, NA - Environmental.

Rwy 14, tree 1269’ from DER, 39’ right of centerline, 80’ AGL/1319’ MSL.

Rwy 32, tree 1105’ from DER, 136’ left of centerline, 80’ AGL/1299’ MSL.

SIOUX FALLS, SD
JOE FOSS FIELD (FSD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 8A 07DEC17 (17341) (FAA)
TAKEOFF MINIMUMS:
Rwy 9, 27, NA - ATC request
Rwy 33, 200 - 1% or std. w/min. climb of 345’ per NM to 1700.

DEPARTURE PROCEDURE:
Rwy 3, climb heading 30° to 2300 before turning eastbound.
Rwy 15, climb heading 150° to 2000, then right turn direct FSD VORTAC, continue climb in FSD VORTAC holding pattern (hold NW, left turn, 147° inbound) to cross FSD VORTAC at or above MEA for route of flight.
Rwy 21, climb heading 210° to 2200 before turning eastbound.
Rwy 33, climbing 330° to 2300 before turning eastbound.

TAKEOFF OBSTACLE NOTES:
Rwy 3, rwy light, poles beginning 5’ from DER, 3’ left of centerline, up to 2’ AGL/1432’ MSL.

Rwy light 5’ from DER, 5’ right of centerline, 2’ AGL/1432’ MSL.
Rwy 15, pole, rwy light beginning 11’ from DER, 39’ left of centerline, up to 2’ AGL/1424’ MSL.

Rwy light 11’ from DER, 40’ right of centerline, 2’ AGL/1424’ MSL.

Fence 112’ from DER, 457’ left of centerline, 10’ AGL/1435’ MSL.
Poles beginning 553’ from DER, 419’ left of centerline, up to 22’ AGL/1444’ MSL.
Pole 919’ from DER, 351’ left of centerline, 26’ AGL/1448’ MSL.

Tank, rwy light beginning 1282’ from DER, 222’ left of centerline, up to 47’ AGL/1472’ MSL.
Poles beginning 1330’ from DER, 708’ right of centerline, up to 39’ AGL/1460’ MSL.
Pole 1609’ from DER, 530’ right of centerline, 44’ AGL/1463’ MSL.

T-L twr 1627’ from DER, 806’ left of centerline, 53’ AGL/1474’ MSL.
Poles beginning 1701’ from DER, 180’ right of centerline, up to 48’ AGL/1468’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

SIoux Falls, SD

Joe FOss Field (FSD)

Rwy 15 (CONT), T-L twr, pole, tree beginning 1725' from DER, 210' left of centerline, up to 58' AGL/1480' MSL.
T-L twr 2592' from DER, 893' right of centerline, 68' AGL/1489' MSL.
Pole 2857' from DER, 314' right of centerline, 73' AGL/1495' MSL.
Building, tower, T-L twr, tree beginning 3053' from DER, 228' left of centerline, up to 106' AGL/1573' MSL.
Tree 3297' from DER, 413' right of centerline, 1514' MSL.
Tree 3344' from DER, 441' right of centerline, 1520' MSL.

Rwy 21, rwy light 4' from DER, 4' right of centerline, 2' AGL/1426' MSL.
Rwy light, sign beginning 4' from DER, 5' left of centerline, up to 2' AGL/1426' MSL.
Tree 424' from DER, 607' right of centerline, 1457' MSL.
Trees beginning 567' from DER, 543' right of centerline, up to 1458' MSL.
Trees beginning 986' from DER, 531' right of centerline, up to 1479' MSL.

Rwy 33, NAVAIDs beginning 34' from DER, 113' right of centerline, up to 4' AGL/1431' MSL.
Tree, tank beginning 2121' from DER, 746' left of centerline, up to 1511' MSL.
Trees beginning 2403' from DER, 654' left of centerline, up to 1519' MSL.
Trees beginning 2483' from DER, 844' left of centerline, up to 1536' MSL.
Tree, pole beginning 2707' from DER, 263' left of centerline, up to 1537' MSL.
Poles beginning 3491' from DER, 366' right of centerline, up to 44' AGL/1518' MSL.
Tree, pole beginning 3546' from DER, 148' left of centerline, up to 1545' MSL.

Sisseton, SD

Sisseton MunI (8D3)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 21JUL16 (16203) (FAA)

TAKEOFF MINIMUMS:

Rwys 4, 22, NA-Environmental.

DEPARTURE PROCEDURE:

Rwy 34, climb heading 344° to 1600 before turning left.

TAKEOFF OBSTACLE NOTES:

Rwy 16, poles beginning 1462' from DER, 709' left of centerline, 1216' MSL.
Fence beginning 51' from DER, crossing left to right, 5' AGL/1166' MSL.
Trees beginning 934' from DER, 362' right of centerline, 1537' MSL.

Slayton, MN

Slayton MunI (DVP)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 22SEP11 (11265) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 17, trees beginning 951' from DER, 345' right of centerline, up to 100' AGL/1723' MSL.
Power lines beginning 1531' from DER, left and right of centerline, 40' AGL/1663' MSL.
Vehicle on road beginning at DER, 234' right of centerline, 15' AGL/1638' MSL.
Terrain beginning 65' from DER, left and right of centerline up to 1657' MSL.

Rwy 35, trees beginning 1034' from DER, left and right of centerline, up to 100' AGL/1715' MSL.
Power lines beginning 892' from DER, 206' left of centerline, 40' AGL/1655' MSL.
Vehicle on roads beginning at DER, 230' left and right of centerline, 15' AGL/1630' MSL.
Terrain beginning 271' from DER, left and right of centerline up to 1650' MSL.
SOUTH ST PAUL, MN
SOUTH ST PAUL MUNI-RICHARD E FLEMING FIELD (SGS)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 13NOV14 (14317) (FAA)
TAKEOFF MINIMUMS:
Rwy 16, 300 -1½ or std. w/min. climb of 225’ per NM to 1200 or alternatively, with std. takeoff minimums and a normal 200’ per NM climb gradient, takeoff must occur no later than 1800’ prior to DER.
Rwy 34, 200-1½ or std. w/min. climb of 220’ per NM to 1100 or alternatively, with std. takeoff minimums and a normal 200’ per NM climb gradient, takeoff must occur no later than 1500’ prior to DER.
TAKEOFF OBSTACLE NOTES:
Rwy 16, tree, 1’ from DER, 321’ left of centerline, 56’ AGL/877’ MSL.
Trees beginning 108’ from DER, 103’ left of centerline, up to 68’ AGL/889’ MSL.
Trees beginning 116’ from DER, 193’ right of centerline, up to 75’ AGL/894’ MSL.
Trees beginning 1108’ from DER, 88’ left of centerline, up to 85’ AGL/898’ MSL.
Trees beginning 116’ from DER, 193’ right of centerline, up to 75’ AGL/894’ MSL.
Trees beginning 2123’ from DER, 444’ right of centerline, up to 100’ AGL/1069’ MSL.

SPEARFISH, SD
BLACK HILLS-CLYDE ICE FIELD (SPF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 08NOV18 (18312) (FAA)
DEPARTURE PROCEDURE:
Use SWUNG (RNAV) DEPARTURE.
TAKEOFF OBSTACLE NOTES:
Rwy 13, lighting 9’ from DER, 17’ right of centerline, 2’ AGL/3897’ MSL.
Lighting beginning 9’ from DER, 17’ left of centerline, up to 2’ AGL/3897’ MSL.
Terrain beginning 185’ from DER, 320’ right of centerline, up to 3904’ MSL.
Terrain 338’ from DER, 496’ right of centerline, 3905’ MSL.
Lighting 487’ from DER, 579’ right of centerline, 1’ AGL/3909’ MSL.
Terrain 562’ from DER, 628’ right of centerline, 3911’ MSL.
Vehicle on traverse way 1071’ from DER, 480’ right of centerline, 3931’ MSL.
Rwy 31, lighting 9’ from DER, 18’ left of centerline, 2’ AGL/3886’ MSL.
Lighting 9’ from DER, 17’ right of centerline, 2’ AGL/3886’ MSL.
Terrain beginning 53’ from DER, 356’ left of centerline, up to 3918’ MSL.
Terrain 142’ from DER, 394’ right of centerline, 3897’ MSL.
Terrain 192’ from DER, 492’ right of centerline, 3902’ MSL.
Terrain beginning 328’ from DER, 395’ right of centerline, up to 3907’ MSL.
Terrain beginning 346’ from DER, 450’ left of centerline, up to 3929’ MSL.
Terrain 592’ from DER, 641’ left of centerline, 3942’ MSL.
Pole, terrain beginning 734’ from DER, 446’ left of centerline, up to 9’ AGL/3986’ MSL.
Tree 1.1 NM from DER, 2402’ right of centerline, 4084’ MSL.
Trees, vehicle on traverse way beginning 1.2 NM from DER, 193’ right of centerline, up to 4112’ MSL.
Trees, terrain, vehicle on traverse way beginning 1.2 NM from DER, 1883’ right of centerline, up to 4126’ MSL.
Terrain, trees beginning 1.2 NM from DER, 1786’ right of centerline, up to 4155’ MSL.
Vehicle on traverse way 1.3 NM from DER, 2624’ right of centerline, 4217’ MSL.
Trees, terrain beginning 1.3 NM from DER, 744’ right of centerline, up to 4228’ MSL.

SPRINGFIELD, MN
SPRINGFIELD MUNI (D42)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 10JAN13 (13010) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 13, trees beginning 267’ from DER, 267’ right of centerline, up to 100’ AGL/1149’ MSL.
Building 802’ from DER, 684’ left of centerline, up to 30’ AGL/1089’ MSL.
Trees beginning 763’ from DER, 603’ left of centerline, up to 100’ AGL/1159’ MSL.
Trees beginning 1083’ from DER, 240’ right of centerline, up to 100’ AGL/1169’ MSL.
Trees beginning 3562’ from DER, 98’ left of centerline, up to 100’ AGL/1169’ MSL.
Rwy 31, trees beginning 2248’ from DER, 183’ left of centerline, up to 100’ AGL/1189’ MSL.
Building 604’ from DER, 563’ right of centerline, up to 30’ AGL/1109’ MSL.
Trees beginning 656’ from DER, 481’ right of centerline, up to 100’ AGL/1169’ MSL.
Trees beginning 3889’ from DER, 1495’ right of centerline, up to 100’ AGL/1199’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

STANLEY, ND
STANLEY MUNI (08D)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 13JAN11 (11013) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 27, Power line beginning 23' from DER, right to left of centerline, up to 40' AGL/2299' MSL.

STAPLES, MN
STAPLES MUNI (SAZ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 31MAY12 (12152) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 14, 400-2 or std. w/min. climb of 285' per NM to 1800.

STURGIS, SD
STURGIS MUNI (49B)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 15OCT15 (15288) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 11, climb heading 096° to 5200, then climbing right turn to 7000 direct RAP VORTAC.
Rwy 29, climb heading 291° to 5000, then climbing right turn to 7000 direct RAP VORTAC.

THIEF RIVER FALLS, MN
THIEF RIVER FALLS RGNL (TVF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 13NOV14 (14317) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 12, lighting 10' from DER, 18' right of centerline, 2' AGL/2272' MSL.
Lighting 10' from DER, 15' left of centerline, 2' AGL/2273' MSL.
Pole, traverse way beginning 630' from DER, 144' right of centerline, up to 23' AGL/2311' MSL.
Lighting 9' from DER, 18' right of centerline, 2' AGL/2242' MSL.
Lighting 9' from DER, 18' left of centerline, 2' AGL/2242' MSL.
Building 554' from DER, 640' right of centerline, 170' AGL/2417' MSL.

TIOGA, ND
TIOGA MUNI (D60)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 13SEP18 (18256) (FAA)
TAKEOFF MINIMUMS:
Rwys 3, 21, NA - Environmental.
Rwy 30, 300 - 1 ½ or std. w/min. climb of 249' per NM to 2500, or alternately, with std. takeoff minimums and a normal 200' per mile climb gradient, takeoff must occur no later than 2200' prior to DER.
TAKEOFF OBSTACLE NOTES:
Rwy 12, lighting 10' from DER, 18' right of centerline, 2' AGL/2272' MSL.
Lighting 10' from DER, 15' left of centerline, 2' AGL/2273' MSL.
Pole, traverse way beginning 630' from DER, 144' right of centerline, up to 23' AGL/2311' MSL.
Lighting 9' from DER, 18' right of centerline, 2' AGL/2242' MSL.
Lighting 9' from DER, 18' left of centerline, 2' AGL/2242' MSL.
Building 554' from DER, 640' right of centerline, 27' AGL/2264' MSL.
General utility 4410' from DER, 1465' right of centerline, 170' AGL/2366' MSL.
Stack 5674' from DER, 1751' right of centerline, 167' AGL/2417' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

TOWER, MN
TOWER MUNI (12D)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 07MAY09 (09127) (FAA)
TAKEOFF MINIMUMS:
Rwy 8, NA - Obstacles.
TAKEOFF OBSTACLE NOTES:
Rwy 26, tree 2315' from DER, 700' right of centerline, 100' AGL/1479' MSL.

TRACY, MN
TRACY MUNI (TKC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 13JAN11 (11013) (FAA)
TAKEOFF MINIMUMS:
Rwys 6, 17, 24, 35, NA-Environmental.
Rwy 29, 300-2 ½ or std. w/ min. climb of 250' per NM to 1800.
TAKEOFF OBSTACLE NOTES:
Rwy 11, tree 56' from DER, 174' right of centerline, 20' AGL/1342' MSL.
Numerous trees and bushes beginning 137' from DER, 86' left of centerline, up to 100' AGL/1410' MSL.
Rwy 29, tower 1.9 NM from DER, 1951' left of centerline, 265' AGL/1625' MSL.

TWO HARBORS, MN
RICHARD B. HELGESON (TWM)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 30JUN11 (11181) (FAA)
TAKEOFF MINIMUMS:
Rwys 15, 33, NA - environmental.
TAKEOFF OBSTACLE NOTES:
Rwy 6, multiple trees, beginning 20' from DER, 44' right of centerline, up to 40' AGL/1122' MSL.
Multiple trees, beginning 46' from DER, 201' left of centerline, up to 40' AGL/1126' MSL.
Rwy 24, multiple trees, beginning 13' from DER, 61' right of centerline, up to 40' AGL/1156' MSL.
Multiple trees, beginning 56' from DER, 97' left of centerline, up to 40' AGL/1138' MSL.

VALLEY CITY, ND
BARNES COUNTY MUNI (BAC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 10SEP20 (20254) (FAA)
TAKEOFF MINIMUMS:
Rwys 5, 8, 17, 23, 26, 35, NA- Environmental.
TAKEOFF OBSTACLE NOTES:
Rwy 13, vehicle on road, 111' from DER, 356' right of centerline, 15' AGL/1396' MSL.
Trees beginning 644' from DER, 242' right of centerline, up to 40' AGL/1421' MSL.
Rwy 31, terrain beginning 32' from DER, 20' right of centerline, up to 1424' MSL.
Vehicle on road 38' from DER, 285' right of centerline, 15' AGL/1418' MSL.
Fence 71' from DER, 292' left of centerline, 4' AGL/1407' MSL.
Terrain beginning 120' from DER, 125' left of centerline, up to 1447' MSL.
Fence 199' from DER, 347' left of centerline, 6' AGL/1150' MSL.

VERMILLION, SD
HAROLD DAVIDSON FIELD (VMR)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 27AUG09 (09239) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 12, road 1' from DER, 200' right of centerline, up to 15' AGL/1156' MSL.
Multiple trees beginning 541' from DER, 366' right of centerline, up to 62' AGL/1202' MSL.
Rwy 30, road 79' from DER 342' left of centerline 15' AGL/1155' MSL.
Road 200' from DER, 450' right of centerline, 15' AGL/1160' MSL.
Fence 199' from DER, 347' left of centerline, 6' AGL/1150' MSL.

WADENA, MN
WADENA MUNI (ADC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 22AUG13 (13234) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 34, runway lights beginning 38' from DER, 76' left and right of centerline 5' AGL/1369' MSL.
Rising terrain and trees beginning 69' from DER, 267' left of centerline, up to 20' AGL/1381' MSL.
Trees beginning 1678' from DER, 213' right of centerline, up to 91' AGL/1436' MSL.
Trees beginning 2445' from DER, 272' right of centerline, up to 96' AGL/1447' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

WAGNER, SD
WAGNER MUNI (AGZ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 17OCT13 (13290) (FAA)
TAKEOFF MINIMUMS:
Rwys 14, 32, NA-Environmental.
TAKEOFF OBSTACLE NOTES:
**Rwy 9**, vehicles on roadway beginning 629' from DER, 162' right of centerline, up to 15' AGL/1485' MSL.
Trees beginning 700' from DER, 227' right of centerline, up to 49' AGL/1514' MSL.
Trees beginning 727' from DER, 532' left of centerline, up to 44' AGL/1508' MSL.
Building and pole beginning 761' from DER, 416' left of centerline, up to 26' AGL/1491' MSL.
Tree 1239' from DER, 558' left of centerline, 36' AGL/1501' MSL.
**Rwy 27**, terrain 13' from DER, 371' right of centerline, 1478 MSL.
Trees beginning 338' from DER, 556' right of centerline, up to 15' AGL/1494' MSL.
Tree 939' from DER, 462' left of centerline, 32' AGL/1509' MSL.
Trees beginning 1331' from DER, 409' right of centerline, up to 53' AGL/1530' MSL.

WAHPETON, ND
HARRY STERN (BWP)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1  30JUN11  (11181)  (FAA)
TAKEOFF MINIMUMS:
Rwys 3, 21, NA - environmental.
TAKEOFF OBSTACLE NOTES:
**Rwy 15**, trees beginning 1020' from DER, 114' left of centerline, up to 74' AGL/1033' MSL.
Trees beginning 2763' from DER, 57' right of centerline, up to 86' AGL/1045' MSL.
**Rwy 33**, electrical system 657' from DER, 632' right of centerline, 71' AGL/1010' MSL.
Trees beginning 714' from DER, 33' right of centerline, up to 70' AGL/1039' MSL.
Electrical system 1570' from DER, 258' right of centerline, 68' AGL/1032' MSL.
Rwy 33, trees beginning 1326' from DER, 15' left of centerline, up to 75' AGL/1039' MSL.

WALHALLA, ND
WALHALLA MUNI (96D)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG  05MAY11  (11125)  (FAA)
TAKEOFF MINIMUMS:
Rwys 15, 400-2½ or std. w/min. climb gradient of 260' per NM to 1500.
DEPARTURE PROCEDURE:
**Rwy 15**, Climb heading 164° to 1500 before turning right.
TAKEOFF OBSTACLE NOTES:
Rwys 15, vehicles on roadway beginning 478' from DER, 583' right of centerline, 1408' MSL.
Lights 38' from DER, 76' left and right of centerline, 2' AGL/1348' MSL.
**Rwy 33**, lights 38' from DER, 77' left and right of centerline, 3' AGL/1348' MSL.
Terrain beginning 84' from DER, 37' left and right of centerline, 1418' MSL.
Vehicle on road 250' from DER, 455' right of centerline, 15' AGL/1560' MSL.
Tree 328' from DER, 200' right of centerline, 6' AGL/1354' MSL.
Trees beginning 420' from DER, 370' left of centerline, up to 55' AGL/1388' MSL.
Trees beginning 903' from DER, 19' right and left of centerline, up to 39' AGL/1392' MSL.
Trees beginning 2213' from DER, 20' left and right of centerline, 1503' MSL.
Trees beginning 2213' from DER, 20' left and right of centerline, up to 128' AGL/1509' MSL.

WALKER, MN
WALKER MUNI (Y49)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 03APR14  (14093)  (FAA)
TAKEOFF MINIMUMS:
Rwys 33, 300-1½ or std. w/min. climb of 235' per NM to 1600, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1800' prior to DER.
TAKEOFF OBSTACLE NOTES:
**Rwy 15**, terrain beginning 1' from DER, 1' right of centerline crossing left of centerline, 1408' MSL.
Lights 38' from DER, 76' left and right of centerline, 2' AGL/1348' MSL.
**Rwy 33**, lights 38' from DER, 77' left and right of centerline, 3' AGL/1348' MSL.
Terrain beginning 84' from DER, 37' left and right of centerline, 1418' MSL.
Vehicle on road 250' from DER, 455' right of centerline, 15' AGL/1560' MSL.
Tree 328' from DER, 200' right of centerline, 6' AGL/1354' MSL.
Trees beginning 420' from DER, 370' left of centerline, up to 55' AGL/1388' MSL.
Trees beginning 903' from DER, 19' right and left of centerline, up to 39' AGL/1392' MSL.
Trees beginning 2213' from DER, 20' left and right of centerline, 1503' MSL.
Trees beginning 2213' from DER, 20' left and right of centerline, up to 128' AGL/1509' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

WARREN, MN
WARREN MUNI (D37)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 08JAN15 (15008) (FAA)
TAKEOFF MINIMUMS:
- Rwy 4, 22, NA - environmental.
DEPARTURE PROCEDURE:
- Rwy 30, climb runway heading to 1400 before turning on course.
TAKEOFF OBSTACLE NOTES:
- Rwy 12, trees beginning 379' from DER, 306' left of centerline, up to 86' AGL/973' MSL.
- Light support structure 3' from DER, 17' right of centerline, 2' AGL/888' MSL.
- Trees beginning 926' from DER, left and right of centerline, up to 71' AGL/955' MSL.
- Vehicles on road beginning 233' from DER, 179' right of centerline, up to 15' AGL/906' MSL.

WARROAD, MN
WARROAD INTL MEMORIAL (RRT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 23JUN16 (16175) (FAA)
TAKEOFF MINIMUMS:
- Rwy 4, 22, NA-Environmental.
TAKEOFF OBSTACLE NOTES:
- Rwy 13, pole 148' from DER, 471' right of centerline, 24' AGL/1093' MSL.

WASECA, MN
WASECA MUNI (ACQ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 15JAN09 (09015) (FAA)
TAKEOFF OBSTACLE NOTES:
- Rwy 15, tree 560' from DER, 560' right of centerline, 100' AGL/1239' MSL.
- Terrain beginning 172' from DER, on centerline, up to 1149' MSL.
- Rwy 33, tree 5042' from DER, 1533' right of centerline, 100' AGL/1259' MSL.

WATERTOWN, SD
WATERTOWN RGNL (ATY)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 26MAY16 (16147) (FAA)
TAKEOFF MINIMUMS:
- Rwy 12, 400-1¼ or std. with a min. climb of 462' per NM to 2600.
- Rwy 18, 36, NA-Environmental.
TAKEOFF OBSTACLE NOTES:
- Rwy 30, light 10' from DER, 30' left of centerline, 1' AGL/1749' MSL.
- Light 11' from DER, 30' right of centerline, 1' AGL/1749' MSL.
- Tree, 2091' from DER, 34' right of centerline, 100' AGL/1806' MSL.
- Tree 2241' from DER, 812' left of centerline, 100' AGL/1805' MSL.
- Rwy 35, sign, 102' from DER, 4' left of centerline, 10' AGL/1750' MSL.

WATFORD CITY, ND
WATFORD CITY MUNI (S25)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 03JUN10 (10154) (FAA)
TAKEOFF MINIMUMS:
- Rwy 12, 400-1¼ or std. with a min. climb of 462' per NM to 2600.
- Rwy 18, 36, NA-Environmental.
TAKEOFF OBSTACLE NOTES:
- Rwy 30, tree 5528' from DER, 1819' right of centerline, up to 100' AGL/2439' MSL.
- Vehicles on road, trees, and terrain beginning 186' from DER, 62' right of centerline, up to 100' AGL/2258' MSL.
- Vehicle on road, fence, and terrain beginning 90' from DER, 43' left of centerline, up to 27' AGL/2167' MSL.
- Rwy 30, trees and buildings beginning 672' from DER, 119' right of centerline, up to 41' AGL/2101' MSL.
- Vehicle on road, light and trees beginning 199' from DER, 128' left of centerline, up to 59' AGL/2119' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

WESSINGTON SPRINGS, SD
WESSINGTON SPRINGS (4X4)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 07DEC17 (17341) (FAA)
TAKEOFF MINIMUMS:
- Rwy 30, std. w/ min. climb of 240’ per NM to 2400 or 1400 - 3 for climb in visual conditions.
DEPARTURE PROCEDURE:
- Rwy 12, climb on heading 127° to 2000 before turning right.
- Rwy 30, climb on heading 313° to 2400 before turning left.
VCOA:
- Rwy 30, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Wessington Springs airport at or above 2800 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
- Rwy 12, pole 10’ from DER, 10’ right of centerline, 2’ AGL/1531’ MSL.
- Fence beginning 127’ from DER, 493’ right of centerline, up to 9’ AGL/1539’ MSL.
- Tree 1753’ from DER, 759’ right of centerline, 50’ AGL/1575’ MSL.
- Pole 2003’ from DER, 1030’ right of centerline, 57’ AGL/1580’ MSL.
- Rwy 30, pole 10’ from DER, 9’ left of centerline, 1546’ MSL.
- Fence 12’ from DER, 498’ left of centerline, 9’ AGL/1554’ MSL.
- Tree 812’ from DER, 332’ right of centerline, 1565’ MSL.
- Pole 4998’ from DER, 320’ left of centerline, 73’ AGL/1672’ MSL.
- Tree 1.2 NM from DER, 1336’ left of centerline, 1731’ MSL.
- Trees beginning 1.3 NM from DER, 2293’ left of centerline, up to 1771’ MSL.
- Trees beginning 1.4 NM from DER, 2587’ left of centerline, up to 1794’ MSL.
- Tree 1.6 NM from DER, 2761’ left of centerline, up to 1805’ MSL.
- Tree 1.8 NM from DER, 3351’ left of centerline, 1845’ MSL.
- Tree, terrain beginning 1.9 NM from DER, 3408’ left of centerline, up to 1887’ MSL.
- Tree beginning 2 NM from DER, 3138’ left of centerline, up to 1890’ MSL.
- Tree and pole beginning 2.1 NM from DER, 2642’ left of centerline, up to 40’ AGL/1926’ MSL.
- Trees beginning 2.2 NM from DER, 1876’ left of centerline, up to 100’ AGL/1932’ MSL.

WHEATON, MN
WHEATON MUNI (ETH)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 08NOV18 (18312) (FAA)
TAKEOFF MINIMUMS:
- Rwys 6, 24, NA – ATC.
TAKEOFF OBSTACLE NOTES:
- Rwy 16, electrical pole beginning 9’ from DER, 16’ right of centerline, up to 1024’ MSL.
- Tree 87’ from DER, 136’ right of centerline, up to 1025’ MSL.
- Tree 110’ from DER, 155’ left of centerline, up to 1026’ MSL.
- Tree 178’ from DER, 480’ left of centerline, up to 49’ AGL/1072’ MSL.
- Tree 252’ from DER, 478’ left of centerline, up to 55’ AGL/1078’ MSL.
- Tree 487’ from DER, 616’ right of centerline, up to 79’ AGL/1102’ MSL.
- Tree, pole beginning 384’ from DER, 22’ left of centerline, up to 93’ AGL/1116’ MSL.
- Tree, pole, building beginning 540’ from DER, 3’ right of centerline, up to 102’ AGL/1125’ MSL.
- Trees beginning 2209’ from DER, 339’ right of centerline, up to 109’ AGL/1132’ MSL.
- Trees beginning 2344’ from DER, 342’ right of centerline, up to 114’ AGL/1137’ MSL.
- Trees beginning 2418’ from DER, 499’ right of centerline, up to 115’ AGL/1138’ MSL.
- Trees beginning 2531’ from DER, 133’ right of centerline, up to 116’ AGL/1139’ MSL.
- Tree 2882’ from DER, 728’ right of centerline, up to 121’ AGL/1144’ MSL.
- Trees beginning 2901’ from DER, 2’ right of centerline, up to 125’ AGL/1148’ MSL.
- Trees beginning 3499’ from DER, 103’ left of centerline, up to 103’ AGL/1126’ MSL.
- Tree 3571’ from DER, 80’ left of centerline, up to 105’ AGL/1128’ MSL.
- Tree 3664’ from DER, 35’ left of centerline, up to 108’ AGL/1131’ MSL.
- Trees beginning 3700’ from DER, 26’ left of centerline, up to 110’ AGL/1133’ MSL.
- Trees beginning 4490’ from DER, 67’ left of centerline, up to 120’ AGL/1143’ MSL.
- Rwy 34, building 1’ from DER, 453’ right of centerline, up to 18’ AGL/1035’ MSL.
- Electrical pole beginning 8’ from DER, 16’ left of centerline, up to 1018’ MSL.
- Tree, sign beginning 96’ from DER, 361’ right of centerline, up to 23’ AGL/1040’ MSL.
- Building beginning 236’ from DER, 515’ right of centerline, up to 29’ AGL/1044’ MSL.
- Tree 870’ from DER, 683’ right of centerline, up to 31’ AGL/1046’ MSL.
- Tree 964’ from DER, 515’ right of centerline, up to 63’ AGL/1078’ MSL.
WILLISTON, ND
WILLISTON BASIN INTL (XWA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 10OCT19 (19283) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 32, vehicle on road beginning 6’ from DER, 372’ right of centerline, up to 2317’ MSL.
Pole and vehicle on road beginning 101’ from DER, 206’ right of centerline, up to 65’ AGL/2366’ MSL.

WINDOM, MN
WINDOM MUNI (MWV)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 18NOV10 (10322) (FAA)
TAKEOFF MINIMUMS:
Rwy 35, 200-1½ or std. w/ min. climb of 225’ per NM to 1700, or alternatively, with std. takeoff minimums and a normal 200’ per NM climb gradient, takeoff must occur no later than 1700’ prior to DER.
TAKEOFF OBSTACLE NOTES:
Rwy 17, trees beginning 1074’ from DER, 461’ right of centerline, up to 100’ AGL/1409’ MSL.
Rwy 35, trees beginning 1.1 NM from DER, 2057’ right of centerline, up to 100’ AGL/1599’ MSL.

WILLMAR, MN
WILLMAR MUNI-JOHN L. RICE FIELD (BDH)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 06DEC18 (18340) (FAA)
TAKEOFF MINIMUMS:
Rwy 3, 21, NA-Environmental.
TAKEOFF OBSTACLE NOTES:
Rwy 31, tree 1338’ from DER, 740’ left of centerline, 67’ AGL/1193’ MSL.

WINNER, SD
WINNER RGNL (ICR)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 21JUL16 (16203) (FAA)
TAKEOFF MINIMUMS:
Rwy 3, 21, NA-Environmental.

WINONA, MN
WINONA MUNI-MAX CONRAD FIELD (ONA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 5A 22JUN17 (17117) (FAA)
TAKEOFF MINIMUMS:
Rwy 30, 700-2½ with min. climb of 318’ per NM to 1700 or std. w/min. climb of 454’ per NM to 1300 or 1400-2½ for VCOA.
DEPARTURE PROCEDURE:
Rwy 12, climb heading 110° to 1900 before turning.
Rwy 30, climb heading 300° to 1400 before turning.
VCOA:
Rwy 30, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Winona Muni-Max Conrad Field at or above 1900 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 12, fence beginning 89’ from DER, 102’ right of centerline, 5’ AGL/660’ MSL.
Trees beginning 958’ from DER, left and right of centerline, up to 87’ AGL/737’ MSL.
Rwy 30, trees beginning 788’ from DER, 28’ right of centerline, 104’ AGL/758’ MSL.
Tree 56’ from DER, 431’ left of centerline, 12’ AGL/666’ MSL.
WORTHINGTON, MN
WORTHINGTON MUNI (OTG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 10JAN13 (13010) (FAA)
TAKEOFF MINIMUMS:
   Rwy 18, 300-1½ or std. w/min. climb of 233’ per NM to 1900, or alternately, with std. takeoff minimums and a normal 200’ per NM climb gradient, takeoff must occur no later than 2100’ prior to DER.
DEPARTURE PROCEDURE:
   Rwy 29, climb heading 293° to 2100 before turning left.
TAKEOFF OBSTACLE NOTES:
   Rwy 18, REIL beginning 34’ from DER, 78’ left of centerline, 4’ AGL/1577’ MSL.
   VOR/DME 1201’ from DER, 432’ left of centerline, 35’ AGL/1606’ MSL.
   Pole 7390’ from DER, 1989’ left of centerline, 195’ AGL/1781’ MSL.
   REIL beginning 34’ from DER, 78’ right of centerline, 4’ AGL/1577’ MSL.
   Poles beginning 455’ from DER, 530’ right of centerline, up to 39’ AGL/1610’ MSL.
   Building 703’ from DER, 627’ right of centerline, 20’ AGL/1611’ MSL.
   Rwy 29, vehicles on road beginning 106’ from DER, 258’ left of centerline, up to 18’ AGL/1587’ MSL.
   Trees beginning 1083’ from DER, 475’ left of centerline, up to 56’ AGL/1625’ MSL.
   Terrain beginning 17’ from DER, 2’ right of centerline, 1574’ MSL.
   Rwy 36, light support structure 10’ from DER, 18’ left of centerline, 3’ AGL/1574’ MSL.
   Light support structure 10’ from DER. 17’ right of centerline, 3’ AGL/1574’ MSL.

YANKTON, SD
CHAN GURNEY MUNI (YKN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 03JAN85 (85003) (FAA)
TAKEOFF MINIMUMS:
   Rwy 31, 300-1.
DEPARTURE PROCEDURE:
   Rwys 1, 13, 19, 31, climb runway heading to 2400 before turning.