INSTRUMENT APPROACH PROCEDURE CHARTS

IFR ALTERNATE AIRPORT MINIMUMS

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

NAME	ALTERNATE MINIMUMS
ABERDEEN, SD	
ABERDEEN RGNL (ABR)	**RNAV (GPS) Rwy 13** **RNAV (GPS) Rwy 31** **RNAV (GPS) Rwy 35** **VOR Rwy 31** **VOR/DME Rwy 13**
NA when local weather not available.	
AITKIN, MN	
AITKIN MUNI-STEVE KURTZ FIELD (AIT)	**RNAV (GPS) Rwy 16** **RNAV (GPS) Rwy 34**
NA when local weather not available.	
ALBERT LEA, MN	
ALBERT LEA MUNI (AEL)	**RNAV (GPS) Rwy 17** **RNAV (GPS) Rwy 35** **VOR RWY 17** **VOR/DME RWY 35**
NA when local weather not available.	
ALEXANDRIA, MN	
CHANDLER FIELD (AXN)	**RNAV (GPS) Rwy 22** **RNAV (GPS) Rwy 31**
NA when local weather not available.	
APPLETON, MN	
APPLETON MUNI (AQP)	**RNAV (GPS) Rwy 13**
NA when local weather not available.	
AUSTIN, MN	
AUSTIN MUNI (AUM)	**RNAV (GPS) Rwy 17**[1] **RNAV (GPS) Rwy 35** **VOR/DME-A**[1]
NA when local weather not available.	
[1]Category D, 800-2¼.	

NAME	ALTERNATE MINIMUMS
BAUDETTE, MN	
BAUDETTE INTL (BDE)	**RNAV (GPS) Rwy 12**[1] **RNAV (GPS) Rwy 30**[1] **VOR/DME Rwy 12** **VOR Rwy 30**
Category C, 800-2¼; Category D, 800-2½.	
[1]NA when local weather not available.	
BEMIDJI, MN	
BEMIDJI RGNL (BJI)	**RNAV (GPS) Rwy 13** **RNAV (GPS) Rwy 25** **RNAV (GPS) Rwy 31**
NA when local weather not available.	
BENSON, MN	
BENSON MUNI (BBB)	**RNAV (GPS) Rwy 14** **RNAV (GPS) Rwy 32**
NA when local weather not available.	
BIGFORK, MN	
BIGFORK MUNI (FOZ)	**RNAV (GPS) Rwy 15** **RNAV (GPS) Rwy 33**
NA when local weather not available.	
BISMARCK, ND	
BISMARCK MUNI (BIS)	**ILS or LOC Rwy 13**[1] **ILS or LOC Rwy 31**[2] **RADAR-1**
NA when control tower closed.	
[1]ILS, Categories A, B, C, 800-2; Category D 800-2¼. LOC, Category D 800-2¼.	
[2]ILS, Categories A, B, C, D, 700-2.	
BRAINERD, MN	
BRAINERD LAKES RGNL (BRD)	**ILS or LOC Rwy 23** **RNAV (GPS) Rwy 5** **RNAV (GPS) Rwy 23** **RNAV (GPS) Rwy 34**
NA when local weather not available.	

NAME ALTERNATE MINIMUMS

BROOKINGS, SD
BROOKINGS
RGNL (BKX)..... **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30
NA when local weather not available.

BUFFALO, MN
BUFFALO MUNI (CFE) ..... **RNAV (GPS) Rwy 36**
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.

CANBY, MN
MYERS FIELD (CNB)..... **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30
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 17**
RNAV (GPS) Rwy 35
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 31
NA when local weather not available.

DETROIT LAKES, MN
DETROIT LAKES-WETHING
FIELD (DTL)..... **RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 31
NA when local weather not available.
Category D, 800-2¼.

NAME ALTERNATE MINIMUMS

DEVILS LAKE, ND
DEVILS LAKE
RGNL (DVL).....**ILS or LOC/DME Rwy 31[1]**
RNAV (GPS) Rwy 3
RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 21
RNAV (GPS) Rwy 31
VOR Rwy 3[2]
VOR Rwy 21[3]
NA when local weather not available.
[1]ILS, Category D, 700-2.
[2]Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.
[3]Category C, 800-2¼, Category D, 800-2½.

DICKINSON, ND
DICKINSON-THEODORE ROOSEVELT
RGNL (DIK).....**RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 25
RNAV (GPS) Rwy 32
VOR-A
NA when local weather not available.

DODGE CENTER, MN
DODGE CENTER (TOB).....**RNAV (GPS) Rwy 16**
RNAV (GPS) Rwy 34
VOR-A
NA when local weather not available.

DULUTH, MN
DULUTH INTL (DLH) .....**ILS or LOC Rwy 9[1]**
ILS or LOC Rwy 27[1]
RNAV (GPS) Rwy 9[2]
RNAV (GPS) Rwy 27[2]
RADAR-1[2]
VOR or TACAN Rwy 3[1]
VOR/DME or TACAN Rwy 21[1]
[1]Categories D, E, 1000-3.
[2]Category E, 800-2¼.

ELY, MN
ELY MUNI (ELO) .....**RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30
NA when local weather not available.

EVELETH, MN
EVELETH-VIRGINIA
MUNI (EVM)..... **RNAV (GPS) Rwy 27[1]**
VOR/DME-A[2]
[1]NA when local weather not available.
[2]Category C, 800-2¼; Category D, 800-2½.

14 NOV 2013 to 12 DEC 2013
14 NOV 2013 to 12 DEC 2013

NAME ALTERNATE MINIMUMS

FAIRMONT, MN

FAIRMONT MUNI (FRM) ... **RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 31
VOR Rwy 13
VOR Rwy 31

NA when local weather not available.

FARGO, ND

HECTOR INTL (FAR) ..... **ILS or LOC Rwy 18[1]**
ILS or LOC Rwy 36[1]
RNAV (GPS) Rwy 9[4]
RNAV (GPS) Rwy 18[2]
RNAV (GPS) Rwy 27[4]
RNAV (GPS) Rwy 36[2]
VOR/DME or TACAN Rwy 18[2]
VOR or TACAN Rwy 36[3]

[1]ILS, Category E, 700-2¼. LOC, Category E, 800-2¼.
[2]Category E, 800-2¼.
[3]Category D, 800-2¼, Category E, 800-2½.
[4]Category D, 800-2¼.

FARIBAULT, MN

FARIBAULT MUNI (FBL).... **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30
VOR-A

NA when local weather not available.

FERGUS FALLS, MN

FERGUS FALLS MUNI-EINAR MICKELSON FIELD (FFM) ..... **ILS or LOC Rwy 31[1]**
NDB Rwy 31[2]
RNAV (GPS) Rwy 13[2]
RNAV (GPS) Rwy 31[2]
RNAV (GPS) Rwy 35

NA when local weather not available.
[1]ILS, Category D, 700-2¼. LOC, Category D, 800-2¼.
[2]Category D, 800-2¼.

FOSSTON, MN

FOSSTON MUNI (FSE)..... **NDB Rwy 34[1]**
RNAV (GPS) Rwy 16
RNAV (GPS) Rwy 34

NA when local weather not available.
[1]Category C, 800-2½.

GLENCOE, MN

GLENCOE MUNI (GYL)..... **RNAV (GPS) Rwy 31**

NA when local weather not available.

NAME ALTERNATE MINIMUMS

GLENWOOD, MN

GLENWOOD MUNI (GHW).....**RNAV (GPS) Rwy 15**
RNAV (GPS) Rwy 33

NA when local weather not available.

GRAND FORKS, ND

GRAND FORKS INTL (GFK) ..... **ILS or LOC Rwy 35L[12]**
LOC BC Rwy 17R[13]
RNAV (GPS) Rwy 9L[3]
RNAV (GPS) Rwy 17R[3]
RNAV (GPS) Rwy 27R[3]
RNAV (GPS) Rwy 35L[3]
VOR Rwy 17R[3]
VOR Rwy 35L[3]

[1]NA when control tower closed.
[2]ILS, Category E, 700-2½. LOC, Category E, 800-2½.
[3]NA when local weather not available.

GRAND MARAIS, MN

GRAND MARAIS/ COOK COUNTY (CKC) .....**RNAV (GPS) Rwy 9**
RNAV (GPS) Rwy 27

NA when local weather not available.

GRAND RAPIDS, MN

GRAND RAPIDS/ITASCA COUNTY-GORDON NEWSTROM FIELD (GPZ)...**ILS or LOC Rwy 34**
RNAV (GPS) Rwy 16
RNAV (GPS) Rwy 34
VOR Rwy 34

NA when local weather not available.

GRANITE FALLS, MN

GRANITE FALLS MUNI/LENZEN-ROE MEMORIAL FIELD (GDB)...**RNAV (GPS) Rwy 33**

NA when local weather not available.

HALLOCK, MN

HALLOCK MUNI (HCO).....**RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 31

NA when local weather not available.

HETTINGER, ND

HETTINGER MUNI (HEI) .....**RNAV (GPS) Rwy 30**

NA when local weather not available.
Category D, 800-2¼.

NAME ALTERNATE MINIMUMS

HIBBING, MN
RANGE
RGNL (HIB)..... **ILS OR LOC/DME Rwy 13[1]**
VOR Rwy 13[2]
[1]ILS,Categories A, B, C, D, 800-2.
[2]Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.

HURON, SD
HURON RGNL (HON)..... **ILS or LOC Rwy 12[12]**
LOC/DME BC Rwy 30[23]
RNAV (GPS) Rwy 12[23]
RNAV (GPS) Rwy 30[23]
VOR Rwy 12[23]
[1]ILS, Category D, 700-2¼. LOC, Category D, 800-2¼.
[2]NA when local weather not available.
[3]Category D, 800-2¼.

HUTCHINSON, MN
HUTCHINSON MUNI-
BUTLER FIELD (HCD)..... **RNAV (GPS) Rwy 15**
RNAV (GPS) Rwy 33
VOR/DME Rwy 33
NA when local weather not available.

INTERNATIONAL FALLS, MN
FALLS
INTL (INL) .....**COPTER ILS or LOC Rwy 31[1]**
ILS or LOC/DME Rwy 13,700-2[2]
ILS or LOC Rwy 31[2]
RNAV (GPS) Rwy 13[2]
RNAV (GPS) Rwy 31[2]
VOR Rwy 13[23]
VOR/DME Rwy 31[2]
[1]LOC, NA; ILS, NA when local weather not available.
[2]NA when local weather not available.
[3]Category D, 800-2¼.

JACKSON, MN
JACKSON MUNI (MJQ) ..... **RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 31
NDB Rwy 13
NA when local weather not available.

JAMESTOWN, ND
JAMESTOWN
RGNL (JMS)..... **RNAV (GPS) Rwy 4**
RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 22
RNAV (GPS) Rwy 31
VOR Rwy 31
NA when local weather not available.

NAME ALTERNATE MINIMUMS

LANGDON, ND
ROBERTSON
FIELD (D55) .....**RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
NA when local weather not available.

LITCHFIELD, MN
LITCHFIELD
MUNI (LJF) ..... **RNAV (GPS) Rwy 13[1]**
RNAV (GPS) Rwy 31[1]
VOR-A[1]
VOR/DME Rwy 13
Category D, 800-2¼.
[1]NA when local weather not available.

LITTLE FALLS, MN
LITTLEFALLS/MORRISON COUNTY,
CHARLES A. LINDBERGH
FIELD (LXL).....**RNAV (GPS) Rwy 31**
NA when local weather not available.

LINTON, ND
LINTON MUNI (7L2) ..... **RNAV (GPS) Rwy 9**
RNAV (GPS) Rwy 27
[1]NA when local weather not available.

MADISON, MN
LAC QUI PARLE
COUNTY (DXX).....**NDB Rwy 32**
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
NA when local weather not available

MADISON, SD
MADISON MUNI (MDS).....**RNAV (GPS) Rwy 15**
RNAV (GPS) Rwy 33
NA when local weather not available

MANKATO, MN
MANKATO RGNL (MKT).....**RNAV (GPS) Rwy 4**
RNAV (GPS) Rwy 15
RNAV (GPS) Rwy 22
RNAV (GPS) Rwy 33
VOR Rwy 15
VOR Rwy 33
NA when local weather not available.

MAPLE LAKE, MN
MAPLE
LAKE MUNI (MGG).....**RNAV (GPS) Rwy 28**
VOR-A
NA when local weather not available.

NAME ALTERNATE MINIMUMS

MARSHALL, MN

SOUTHWEST MINNESOTA RGNL MARSHALL/ RYAN FIELD (MML)..... **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30
VOR Rwy 12

NA when local weather not available.

MINNEAPOLIS, MN

AIRLAKE (LVN)..... **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30
VOR Rwy 12[1]

NA when local weather not available.
[1]Category D, 800-2¼.

ANOKA COUNTY-BLAINE AIRPORT (JANES FIELD) (ANE)..**ILS or LOC/DME Rwy 27**
RNAV (GPS) Rwy 9
RNAV (GPS) Rwy 18
RNAV (GPS) Rwy 27
VOR Rwy 9
VOR/DME Rwy 27

NA when local weather not available.

CRYSTAL (MIC)..... **RNAV (GPS) Rwy 14L**
NA when local weather not available.

FLYING CLOUD (FCM)..... **COPTER ILS or LOC Rwy 10R[1]**
ILS or LOC Rwy 10R[1]
RNAV (GPS) Rwy 10L
RNAV (GPS) Rwy 10R
RNAV (GPS) Rwy 28L
RNAV (GPS) Rwy 28R
VOR Rwy 10R
VOR/DME Rwy 36

NA when local weather not available.
[1]NA when control tower closed.

NAME ALTERNATE MINIMUMS

MINNEAPOLIS, MN (CON'T)

MINNEAPOLIS-ST. PAUL INTL/WOLD-CHAMBERLAIN (MSP).....**ILS or LOC Rwy 12L[1]**
ILS or LOC Rwy 12R[1]
ILS or LOC Rwy 30L[2]
ILS or LOC Rwy 30R[6]
ILS or LOC Rwy 35[3]
LOC Rwy 4[4]
LOC Rwy 22[4]
RNAV (GPS) Rwy 4[4]
RNAV (GPS) Rwy 12L[5]
RNAV (GPS) Rwy 12R[4]
RNAV (GPS) Rwy 22[4]
RNAV (GPS) Rwy 30L[4]
RNAV (GPS) Rwy 30R[4]
RNAV (GPS) Z Rwy 35[4]

[1]ILS, Category D, 700-2; Category E, 900-3. LOC, Category E, 900-3.
[2]ILS, Categories A, B, C, 700-2; Category D, 700-2¼; Category E, 900-3. LOC, Category D, 800-2¼; Category E, 900-3.
[3]ILS, Categories A, B, 800-2; Category C, D, 800-2½; Category E, 900-3. LOC, Category C, D, 800-2½; Category E, 900-3.
[4]Category E, 900-3.
[5]Category D, 800-2¼; Category E, 900-3.
[6]ILS, Categories A, B, C, D, 700-2; Category E, 900-3. LOC, Category E, 900-3.

MINOT, ND

MINOT INTL (MOT) ..... **ILS or LOC Rwy 31[12]**
LOC/DME BC Rwy 13[1]
RNAV (GPS) Rwy 8
RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 26
RNAV (GPS) Rwy 31
VOR Rwy 8[3]
VOR Rwy 26[4]

NA when local weather not available.
[1]NA when tower closed.
[2]Category E, 1100-3.
[3]Categories A, B, 1100-2; Categories C, D, 1100-3.
[4]Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.

MITCHELL, SD

MITCHELL MUNI (MHE).....**RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30
VOR Rwy 12
VOR Rwy 30[1]

NA when local weather not available.
[1]Categories A, B, 1000-2; Categories C, D, 1000-3.

NAME ALTERNATE MINIMUMS

MOBRIDGE, SD
MOBRIDGE MUNI (MBG) .. **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30
NA when local weather not available
Category D, 900-2¾.

MONTEVIDEO, MN
MONTEVIDEO-CHIPPEWA
COUNTY (MVE) ..... **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
NA when local weather not available

MOORHEAD, MN
MOORHEAD
MUNI (JKJ)..... **RNAV (GPS) Rwy 30**
NA when local weather not available.

MORRIS, MN
MORRIS MUNI-CHARLIE SCHMIDT
FLD (MOX)..... **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
NA when local weather not available.

NEW ULM, MN
NEW ULM MUNI (ULM) ..... **RNAV (GPS) Rwy 15**
RNAV (GPS) Rwy 33
NDB Rwy 15
NDB Rwy 33[1]
NA when local weather not available.
[1]Category C, D, 800-2½;

ORR, MN
ORR RGNL (ORB) ..... **RNAV (GPS) Rwy 13**
NA when local weather not available.

ORTONVILLE, MN
ORTONVILLE MUNI-MARTINSON
FIELD (VVV)..... **RNAV (GPS) Rwy 34**
NA when local weather not available.

OWATONNA, MN
OWATONNA DEGNER
RGNL (OWA) ..... **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30
NA when local weather not available.

PARK RAPIDS, MN
PARK RAPIDS MUNI-KONSHOK
FIELD (PKD) ..... **NDB Rwy 31**
RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 31
VOR Rwy 31
VOR/DME Rwy 13
NA when local weather not available.

NAME ALTERNATE MINIMUMS

PAYNESVILLE, MN
PAYNESVILLE
MUNI (PEX) .....**RNAV (GPS) Rwy 11**
RNAV (GPS) Rwy 29
NA when local weather not available.

PINE RIDGE, SD
PINE RIDGE (IEN).....**RNAV (GPS) Rwy 30**
NA when local weather not available.
Categories A, B, 900-2.

PIPESTONE, MN
PIPESTONE
MUNI (PQN)..... **RNAV (GPS) Rwy 18**
RNAV (GPS) Rwy 36
NA when local weather not available.

PRESTON, MN
FILLMORE
COUNTY (FKA) .....**RNAV (GPS) Rwy 11**
RNAV (GPS) Rwy 29
NA when local weather not available.

RAPID CITY, SD
RAPID CITY
RGNL (RAP) .....**ILS or LOC Rwy 32[1]**
RNAV (GPS) Rwy 5
RNAV (GPS) Rwy 14[2]
RNAV (GPS) Rwy 23
RNAV (GPS) Rwy 32[2]
VOR or TACAN Rwy 14[2]
VOR or TACAN Rwy 32[2]
NA when local weather not available.
[1]ILS, Categories B, C, D, 700-2; Category E, 800-2¾. LOC, Category E, 800-2¾.
[2]Category E, 800-2¾.

RED WING, MN
RED WING
RGNL (RGK)..... **RNAV (GPS) Rwy 9[1]**
RNAV (GPS) Rwy 27[2]
NA when local weather not available.
[1]Category C, 800-2¼, Category D, 800-2½.
[2]Category C, 800-2¼.

REDWOOD FALLS, MN
REDWOOD FALLS
MUNI (RWF) .....**RNAV (GPS) Rwy 30**
VOR-A
Category D, 800-2¼.
NA when local weather not available.

14 NOV 2013 to 12 DEC 2013
14 NOV 2013 to 12 DEC 2013

NAME ALTERNATE MINIMUMS

ROCHESTER, MN
ROCHESTER
INTL (RST).....**ILS or LOC Rwy 13**
ILS or LOC Rwy 31
COPTER ILS or LOC Rwy 31
NA when control tower closed.

ROLLA, ND
ROLLA MUNI (06D)..... **RNAV (GPS) Rwy 32**
NA when local weather not available.
Category D, 900-2¾.

ROSEAU, MN
ROSEAU MUNI/RUDY BILLBERG
FIELD (ROX)..... **RNAV (GPS) Rwy 16**
RNAV (GPS) Rwy 34
NA when local weather not available.

RUGBY, ND
RUGBY MUNI (RUG) ..... **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30
NA when local weather not available.

RUSH CITY, MN
RUSH CITY
RGNL (ROS) ..... **RNAV (GPS) Rwy 34**
NA when local weather not available.

ST. CLOUD, MN
ST. CLOUD
RGNL (STC).....**ILS or LOC/DME Rwy 13**[123]
RNAV (GPS) Rwy 5[1]
RNAV (GPS) Rwy 13[1]
RNAV (GPS) Rwy 23[1]
RNAV (GPS) Rwy 31[1]
VOR/DME Rwy 13[12]
VOR Rwy 31[12]
[1]NA when local weather not available.
[2]NA when control tower closed.
[3]ILS, Categories A, B, C, D, 700-2.

ST. PAUL, MN
LAKE ELMO (21D).....**NDB Rwy 4**[1]
RNAV (GPS) Rwy 32
NA when local weather not available.
[1]Categories A, B, 900-2; Category C 900-2½.

NAME ALTERNATE MINIMUMS

ST. PAUL, MN (CON'T)
ST. PAUL DOWNTOWN HOLMAN
FIELD (STP) ..... **ILS or LOC Rwy 14**[12]
ILS or LOC Rwy 32[13]
RNAV (GPS) Rwy 14[3]
RNAV (GPS) Rwy 32[4]
[1]NA when local weather not available.
[2]ILS, LOC, Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.
[3]Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.
[4]Categories A, B, C, 900-2½; Category D, 900-2¾.

SAUK CENTRE, MN
SAUK CENTRE
MUNI (D39).....**RNAV (GPS) Rwy 32**
NA when local weather not available.

SILVER BAY, MN
SILVER BAY
MUNI (BFW) .....**RNAV (GPS) Rwy 25**
NA when local weather not available.

SIOUX FALLS, SD
JOE FOSS
FIELD (FSD) ..... **ILS or LOC Rwy 3**[12]
ILS or LOC Rwy 21[13]
RADAR-1[4]
VOR or TACAN Rwy 15[5]
VOR/DME or TACAN Rwy 33[4]
[1]NA when control tower closed.
[2]ILS, Category D, 700-2.
[3]ILS, Categories A, B, C, D, 700-2.
[4]Category E, 800-2¾.
[5]Category E, 900-3.

SLAYTON, MN
SLAYTON MUNI (DVP) .....**RNAV (GPS) Rwy 17**
RNAV (GPS) Rwy 35
NA when local weather not available.

SOUTH ST. PAUL, MN
SOUTH ST. PAUL MUNI-RICHARD E
FLEMING FIELD (SGS).....**RNAV (GPS) Rwy 34**
Category D, 800-2¼.
NA when local weather not available.

SPEARFISH, SD
BLACK HILLS-
CLYDE ICE FIELD (SPF).....**NDB-A**[1]
RNAV (GPS) Rwy 13[2]
RNAV (GPS) Rwy 31[3]
[1]Categories A, B, 1000-2.
[2]Categories A, B, 900-2, Category C, 1000-2¾.
[3]Categories A, B, 1000-2, Category C, 1000-2¾.

14 NOV 2013 to 12 DEC 2013
14 NOV 2013 to 12 DEC 2013

NAME ALTERNATE MINIMUMS

STAPLES, MN
STAPLES MUNI (SAZ)..... **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
NA when local weather not available.

THIEF RIVER FALLS, MN
THIEF RIVER
FALLS RGNL (TVF) ..... **RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 31
VOR Rwy 13
NA when local weather not available.

TIOGA, ND
TIOGA
MUNI (D60) ..... **RNAV (GPS) Rwy 30**
NA when local weather not available.
Category D, 800-2¼.

TWO HARBORS, MN
RICHARD B.
HELGESON (TWM)..... **RNAV (GPS) Rwy 6**
RNAV (GPS) Rwy 24
NA when local weather not available.

WADENA, MN
WADENA MUNI (ADC)..... **RNAV (GPS) Rwy 16**
RNAV (GPS) Rwy 34
NA when local weather not available.

WAHPETON, ND
HARRY
STERN (BWP)..... **RNAV (GPS) Rwy 33**
NA when local weather not available.

WARROAD, MN
WARROAD INTL
MEMORIAL (RRT)..... **RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 31
NA when local weather not available.

WASECA, MN
WASECA MUNI (ACQ)..... **RNAV (GPS) Rwy 15**
RNAV (GPS) RWY 33
NA when local weather not available.

WATERTOWN, SD
WATERTOWN
RGNL (ATY).....**LOC/DME BC Rwy 17**
NDB Rwy 35
RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 17
RNAV (GPS) Rwy 30
RNAV (GPS) Rwy 35
VOR or TACAN Rwy 17
NA when local weather not available.

NAME ALTERNATE MINIMUMS

WHEATON, MN
WHEATON MUNI (ETH) .....**RNAV (GPS) Rwy 16**
RNAV (GPS) Rwy 34
NA when local weather not available.

WILLISTON, ND
SLOULIN FIELD
INTL (ISN).....**RNAV (GPS) Rwy 11**
RNAV (GPS) Rwy 29
VOR Rwy 11
VOR/DME Rwy 29
NA when local weather not available.

WILLMAR, MN
WILLMAR MUNI-JOHN
L RICE FIELD (BDH) ..... **RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 31
VOR Rwy 13
VOR Rwy 31[1]
NA when local weather not available.
[1]Category D, 800-2¼.

WINNER, SD
WINNER RGNL (ICR).....**RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 31
VOR-A
NA when local weather not available.

WINONA, MN
WINONA MUNI-MAX CONRAD
FLD (ONA).....**RNAV (GPS) Rwy 30**
Categories A, B, 1000-2, Category C, 1000-3, Category D, 1200-3.
NA when local weather not available.

WORTHINGTON, MN
WORTHINGTON
MUNI (OTG)..... **RNAV (GPS) Rwy 11**[2]
RNAV (GPS) Rwy 18[2]
RNAV (GPS) Rwy 29[2]
RNAV (GPS) Rwy 36[2]
VOR Rwy 11[1]
VOR Rwy 18[2]
VOR Rwy 36[2]
[1]Category D, 800-2½.
[2]NA when local weather not available.

YANKTON, SD
CHAN GURNEY MUNI (YKN).....**NDB Rwy 31**[1]
RNAV (GPS) Rwy 13[1]
RNAV (GPS) Rwy 31[1]
VOR Rwy 13[1]
VOR Rwy 31[2]
[1]NA when local weather not available.
[2]Category D, 800-2¼.

BISMARCK, ND
Amdt 3B, AUG 26, 2010 (FAA) ELEV **1661**

BISMARCK MUNI (BIS)
RADAR- 126.3 298.9

	RWY	GS/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
ASR	31		AB	**2100**/24	455	(500-½)	C	**2100**/40	455	(500-¾)
			D	**2100**/50	455	(500-1)				
	13		AB	**2100**-1	445	(500-1)	C	**2100**-1¼	445	(500-1¼)
			D	**2100**-1½	445	(500-1½)				
	3		AB	**2120**-1	459	(500-1)	C	**2120**-1¼	459	(500-1¼)
			D	**2120**-1½	459	(500-1½)				
	21		AB	**2120**-1	459	(500-1)	C	**2120**-1¼	459	(500-1¼)
			D	**2120**-1½	459	(500-1½)				
CIR	ALL RWY		A	**2180**-1	519	(600-1)	B	**2220**-1	539	(600-1)
			C	**2220**-1½	559	(600-1½)	D	**2280**-2	619	(700-2)

Inoperative table does not apply to MALS Rwy 13.

DULUTH, MN
Amdt 20A, FEB 10, 2011 (FAA) ELEV **1428**

DULUTH INTL (DLH)
RADAR- 125.45 255.9

	RWY	GS/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
ASR	3		ABC	**1820**-1	400	(400-1)	D	**1820**-1¼	400	(400-1¼)
			E	**1820**-1½	400	(400-1½)				
	27		AB	**1860**/24	439	(500-½)	C	**1860**/40	439	(500-¾)
			DE	**1860**/50	439	(500-1)				
	21		AB	**1860**-1	440	(500-1)	C	**1860**-1¼	440	(500-1¼)
			DE	**1860**-1½	440	(500-1½)				
	9		AB	**1880**/24	452	(500-½)	C	**1880**/40	452	(500-¾)
			DE	**1880**/50	452	(500-1)				
CIR	ALL RWY		AB	**1920**-1	492	(500-1)	C	**1920**-1½	492	(500-1½)
			D	**1980**-2	552	(600-2)	E	**2060**-2¼	632	(700-2¼)

Category E circling NA southeast of Rwys 3 and 27.

MANDAN, ND
MANDAN MUNI (Y19)

Amdt 4, NOV 09, 1995 (FAA) ELEV **1942**

RADAR- 126.3 298.9 ⚠ NA

	RWY	GS/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
ASR	31		AB	**2360**-1	418	(500-1)	CD	**2360**-1¼	418	(500-1¼)
	13		AB	**2460**-1	520	(600-1)	C	**2460**-1½	520	(600-1½)
			D	**2460**-1¾	520	(600-1¾)				
CIR	ALL RWY		A	**2460**-1	518	(600-1)	B	**2500**-1	558	(600-1)
			C	**2500**-1½	558	(600-1½)	D	**2500**-2	558	(600-2)

Use Bismarck altimeter setting.
When Bismarck control tower closed, ASR NA.

ROCHESTER, MN
ROCHESTER INTL (RST)

Amdt 8, JAN 15, 2009 (FAA) ELEV **1317**

RADAR- 119.8 251.125

	RWY	GS/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
ASR	31		ABC	**1660**/24	356	(400-½)	D	**1660**/50	356	(400-1)
	13		ABC	**1640**/24	360	(400-½)	D	**1640**/50	360	(400-1)
	20		ABC	**1660**-1	356	(400-1)	D	**1660**-1¼	356	(400-1¼)
	2		ABC	**1680**-1	363	(400-1)	D	**1680**-1¼	363	(400-1¼)
CIR	ALL RWY		A	**1720**-1	403	(500-1)	B	**1780**-1	463	(500-1)
			C	**1780**-1½	463	(500-1½)	D	**1880**-2	563	(600-2)

When control tower closed, procedure NA.
For inoperative MALSR, increase S-13 and S-31 CAT D visibility to RVR 6000.
Visibility reduction by helicopters NA Rwy 2-20.

14 NOV 2013 to 12 DEC 2013
14 NOV 2013 to 12 DEC 2013

SIOUX FALLS, SD
JOE FOSS FIELD (FSD)

Amdt 10A, OCT 3,2003 (FAA) ELEV **1429**

RADAR- 125.8 353.6

	RWY	GS/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
ASR	33		AB	**1920**-1	497	(500-1)	C	**1920**-1¼	497	(500-1¼)
			D	**1920**-1½	497	(500-1½)	E	**1920**-1¾	497	(500-1¾)
	3		AB	**1940**/24	517	(600-½)	C	**1940**/50	517	(600-1)
			DE	**1940**/60	517	(600-1¼)				
	21		AB	**1960**/24	531	(600-½)	C	**1960**/50	531	(600-1)
			D	**1960**/60	531	(600-1¼)	E	**1960**-1½	531	(600-1½)
	15		AB	**1960**-1	534	(600-1)	C	**1960**-1½	534	(600-1½)
			D	**1960**-1¾	534	(600-1¾)	E	**1960**-2	534	(600-2)
CIR	ALL RWY		AB	**1960**-1	531	(600-1)	C	**1960**-1½	531	(600-1½)
			D	**2040**-2	611	(700-2)	E	**2300**-3	871	(900-3)

When control tower closed, procedure not authorized.
Category E S-3 visibility increased 1¾ mile for inoperative MALSR.
Category E S-21 visibility increased to 2 miles for inoperative MALSR.

IFR TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

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

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

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

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

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

14 NOV 2013 to 12 DEC 2013

NAME	TAKEOFF MINIMUMS

ABERDEEN, SD

ABERDEEN RGNL (ABR)
ORIG 09239 (FAA)

NOTE: **Rwy 17,** trees 1138' from DER, 432' right of centerline, 41' AGL/1336' MSL. **Rwy 31,** multiple trees beginning 1391' from DER, 326' left of centerline, up to 65' AGL/1360' MSL.

ADA/TWIN VALLEY, MN

NORMAN COUNTY ADA/TWIN VALLEY (D00)
ORIG 11013 (FAA)

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

NOTE: **Rwy 15,** tree 176' from DER 383' left of centerline, 50' AGL/999' MSL. Tree 178' 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. **Rwy 33,** tree 85' from DER 282' left of centerline. 50' AGL/989' MSL. Multiple buildings beginning 2' from DER 468' right of centerline. up to 50' AGL/954' MSL.

NAME	TAKEOFF MINIMUMS

AITKIN, MN

AITKIN MUNI-STEVE KURTZ FIELD (AIT)
AMDT 3 13066(FAA)

DEPARTURE PROCEDURE: **Rwy 26,** climb heading 267° to 1700 before turning south.

NOTE: **Rwy 8,** terrain beginning 32' from DER, left and right of centerline, up to 1221' MSL. Trees beginning 595' from DER, left and right of centerline, up to 89' AGL/1289' MSL. **Rwy 16,** trees beginning 71' from DER, 86' left of centerline, up to 60' AGL/1265' MSL. Terrain 175' from DER, 86' left of centerline, 1211' MSL. Trees beginning 195' from DER, 114' right of centerline, up to 60' AGL/1261' MSL. Vehicles on road beginning 615' from DER, 471' left of centerline, up to 15' AGL/1223' MSL. Trees beginning 1539' from DER, left and right of centerline, up to 100' AGL/1333' MSL. **Rwy 26,** terrain beginning at DER, left and right of centerline. up to 1209' MSL. Trees beginning abeam DER, 283' right of centerline, up to 100' AGL/1299' MSL. Trees beginning 1204' from DER, left and right of centerline, up to 100' AGL/1309' MSL. **Rwy 34,** trees beginning 121' from DER, 406' right of centerline, up to 68' AGL/1268' MSL. Trees beginning 1906' from DER, left and right of centerline, up to 88' AGL/1288' MSL.

14 NOV 2013 to 12 DEC 2013

ALBERT LEA, MN
ALBERT LEA MUNI (AEL)
AMDT 1 11293 (FAA)
NOTE: **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)
DEPARTURE PROCEDURE: **Rwys 4, 13, 22,** when weather is below 200-1, climb runway heading to 1800 before turning.

APPLETON, MN
APPLETON MUNI (AQP)
ORIG-A 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.
NOTE: **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)
ORIG 08045 (FAA)
NOTE: **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.

BAUDETTE, MN
BAUDETTE INTL (BDE)
AMDT 1 10154 (FAA)
DEPARTURE PROCEDURE: **Rwy 12,** climb heading 117°to 1700 before turning northbound.
NOTE: **Rwy 12,** trees, pipes, and markers beginning 61' from DER, 354' right of centerline, up to 100' AGL/1184' MSL. Trees beginning 593' from DER, 138' left of centerline, up to 21' AGL/1100' MSL. Rod on OL tank 4132' from DER, 1233' right of centerline, 120' AGL/1204' MSL. **Rwy 30,** trees beginning 15' from DER, 348' right of centerline, 12' AGL/1096' MSL. Trees beginning 2036' from DER, 532' left of centerline, 64' AGL/1143' MSL.

BELLE FOURCHE, SD
BELLE FOURCHE MUNI (EFC)
AMDT 2 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.
NOTE: **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.

BEMIDJI, MN
BEMIDJI RGNL (BJI)
AMDT 3 08213 (FAA)
NOTE: **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)
AMDT 1 09127 (FAA)
NOTE: **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. Multiple fences beginning 13' from DER, 361' left of centerline, up to 8' AGL/1043' MSL.

BIGFORK, MN
BIGFORK MUNI (FOZ)
ORIG -A 10126 (FAA)
TAKEOFF MINIMUMS: **Rwy 15,** 400-1 or std. with a min. climb of 332' per NM to 1900.

BISMARCK, ND
BISMARCK MUNI (BIS)
AMDT 8 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.
NOTE: **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.

BOTTINEAU, ND
BOTTINEAU MUNI (D09)
AMDT 1 10154 (FAA)
TAKEOFF MINIMUMS: **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.
NOTE: **Rwy 31,** street light 116' from DER, 474' left of centerline, 16' AGL/1700' MSL.

BOWMAN, ND
BOWMAN MUNI (BPP)
ORIG 11293 (FAA)
TAKEOFF MINIMUMS: **Rwy 11,** 300-1 or std. w/min. climb of 310' per NM to 3300. **Rwy 29,** 300-1½ or std. w/min. climb of 290'per NM to 3400.
DEPARTURE PROCEDURE: **Rwy 11,** Climb heading 115°to 3400 before turning left.
NOTE: **Rwy 11,** building abeam DER, 424' left of centerline, 35' AGL/2993' MSL. Tree 1338' from DER, 97' left of centerline, 40' AGL/2996' MSL. Tree 5176' from DER, 1592' left of centerline, 100' AGL/3159' MSL. **Rwy 29,** train on tracks beginning abeam DER, 361' right of centerline, 23' AGL/2982' MSL. Tree 1.2 NM from DER, 798' right of centerline, 100' AGL/3219' MSL.

BRAINERD, MN
BRAINERD LAKES RGNL (BRD)
AMDT 6 12320 (FAA)
NOTE: **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)
AMDT 3 13010 (FAA)
TAKEOFF MINIMUMS: **Rwys 1, 19,** NA-Environmental.
NOTE: **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.

BROOKINGS, SD
BROOKINGS RGNL (BKX)
ORIG 09015 (FAA)
NOTE: **Rwy 12,** pole and trees beginning 1041' from DER, 207' left of centerline, up to 65' AGL/1705' MSL. Building 1277' from DER, 825' right of centerline, 38' AGL/1618' MSL. **Rwy 17,** vehicle on road 799' from DER, on centerline, up to 15' AGL/1687' MSL. Trees beginning 906' from DER, 464' left of centerline, up to 100' AGL/1749' MSL. **Rwy 30,** railroad beginning 547' from DER, 502' right of centerline, 23' AGL/1626' MSL. Tree 132' from DER, 433' left of centerline, 20' AGL/1615' MSL. **Rwy 35,** trees 2892' from DER, 944' right of centerline, up to 100' AGL/1709' MSL.

BUFFALO, MN
BUFFALO MUNI (CFE)
ORIG 11013 (FAA)
TAKEOFF MINIMUMS: **Rwy 18,** 300-1½ or std. w/min climb of 403' per NM to 1200.
NOTE: **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. Trees beginning 1000' from DER, 615' left of centerline, up to 100' AGL/1059' 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 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)
ORIG 12096 (FAA)
NOTE: **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. Vehicles on road 191' from DER, 431' right of centerline, 15' AGL/954' MSL. **Rwy 34,** terrain beginning 167' from DER, 374' left of centerline, up to 951' MSL. Fence post 178' from DER, 481' left of centerline, 14' AGL/959' MSL. Fence 615' from DER, 329' left of centerline, 13' AGL/958' MSL. Vehicles on road 12' from DER, 492' left and right of centerline, 15' AGL/969' MSL. Trees beginning 498' from DER, 12' left and right of centerline, up to 100' AGL/1 020' MSL. Building 427' from DER,538' right of centerline, 24' AGL/969' MSL.

CANBY, MN
MYERS FIELD (CNB)
AMDT 1 10210 (FAA)
NOTE: **Rwy 12,** numerous poles beginning 40' from DER, 421' left and right of centerline, up to 36' AGL/1216' MSL. Truck on roads beginning 134' from DER, 37' 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, 716' right of centerline, 68' AGL/1268' MSL.

CARRINGTON, ND
CARRINGTON MUNI (46D)
ORIG 13178 (FAA)
NOTE: **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)
ORIG 07354 (FAA)
TAKEOFF MINIMUMS: **Rwy 31,** 400-2½ or std. w/ a min. climb of 212' per NM to 1400 or alternatively, with standard takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1700' prior to DER.
NOTE: **Rwy 13,** railroad 30' 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 2251' from DER, 456' left of centerline, up to 100' AGL/1052' MSL.

CAVALIER, ND
CAVALIER MUNI (2C8)
AMDT 1 12264 (FAA)
NOTE: **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 77' AGL/963' MSL. Power pole 1233' from DER, 544' right of centerline, 38' AGL/927' MSL. Power poles beginning 1445' from DER, 330' left of centerline, up to 45' AGL/931' MSL. Bean elevator 1603' from DER, 450' left of centerline, 83' AGL/1003' MSL. Tank 1736' from DER, 434' left of centerline, 83' AGL/969' MSL. **Rwy 34,** trees beginning 1053' from DER, 623' left of centerline, up to 65' AGL/959' MSL. Trees beginning 2005' from DER, 393' right of centerline, up to 65' AGL/954' MSL.

CHAMBERLAIN, SD
CHAMBERLAIN MUNI (9V9)
AMDT 1 12348 (FAA)
TAKEOFF MINIMUMS: **Rwys 18,36,** NA-Environmental.
NOTE: **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.

CLOQUET, MN
CLOQUET CARLTON COUNTY (COQ)
AMDT 2 12208 (FAA)
NOTE: **Rwy 7,** trees beginning abeam DER, 264' left of centerline, up to 100' AGL/1369' MSL. Trees beginning 897' from DER, 358' right of centerline, up to 100' AGL/1349' MSL. Vehicles on road beginning abeam DER, 431' right of centerline, 15' AGL/1274' MSL. **Rwy 17,** trees beginning 69' from DER, 372' right of centerline, up to 81' AGL/1340' MSL. **Rwy 25,** tree 542' from DER, 365' left of centerline, 34' AGL/1313' MSL. Trees beginning 1625' from DER, 462' left of centerline, up to 119' AGL/1388' MSL. Trees beginning 153' from DER, 446' right of centerline, up to 93' AGL/1362' MSL. **Rwy 35,** tree 41' from DER, 434' left of centerline, 49' AGL/1318' MSL. Trees beginning 2181' from DER, crossing centerline left to right, up to 87' AGL/1366' MSL.

COOK, MN
COOK MUNI (CQM)
AMDT 1 12040 (FAA)
NOTE: **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)
ORIG 10322 (FAA)
NOTE: **Rwy 13,** power lines 4085' from DER, 1585' right to 1588' left of centerline, up to 80' AGL/1526' MSL. **Rwy 31,** building12' 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)
AMDT 2 07298 (FAA)
TAKEOFF MINIMUMS: **Rwys 6, 17, 24, 35,** NA-turf runways.
NOTE: **Rwy 13,** tree 1998' from DER, 587' left of centerline, 94' AGL/970' MSL. Pole 1127' from DER, 662' left of centerline, 46' AGL/926' MSL.

CROSBY, ND
CROSBY MUNI (D50)
ORIG 10154 (FAA)
TAKEOFF MINIMUMS: **Rwys 3, 21,** NA-Environmental.
NOTE: **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.

DETROIT LAKES, MN
DETROIT LAKES-WETHING FIELD (DTL)
ORIG 05132 (FAA)
TAKEOFF MINIMUMS: **Rwys 17, 35,** NA.
NOTE: **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)
AMDT 1A 09351 (FAA)
TAKEOFF MINIMUMS: **Rwy 31,** 300-1 or std. with a min. climb of 350' per NM to 1600.
NOTE: **Rwy 3,** tree 1528' from DER, 319' left of centerline, 100' AGL/1490' MSL. Tree 1520' from DER, 136' right of centerline, 100' AGL/1489' MSL. **Rwy 13,** bush 266' from DER, 523' left of centerline, 17' AGL/1451' MSL. Road, light pole and antenna on building beginning 95' from DER, 414' right of centerline, up to 17' AGL/1484' MSL. **Rwy 21,** roads beginning 335' from DER, 2' right of centerline, 15' AGL/1447' MSL, multiple poles, trees and towers beginning 552' from DER 355' left of centerline, up to 123' AGL/1548' MSL. **Rwy 31,** road 470' from DER, 424' right of centerline, 15' AGL/1472' MSL. Multiple poles and trees beginning 1180' from DER, 354' left of centerline, up to 49' AGL/1545' MSL.

DICKINSON, ND

DICKINSON-THEODORE ROOSEVELT RGNL (DIK)
AMDT 1A 12180 (FAA)
DEPARTURE PROCEDURE: **Rwy 25,** climb heading 250° to 3500 before turning left.
NOTE: **Rwy 7,** road 887' from DER, on rwy centerline, 15' AGL/2631' MSL.

DODGE CENTER, MN

DODGE CENTER (TOB)
ORIG 09015 (FAA)
TAKEOFF MINIMUMS: **Rwy 22,** NA-Environmental.
NOTE: **Rwy 16,** trees 3945' from DER, 1542' left of centerline, 100' AGL/1409' MSL.

DULUTH, MN

DULUTH INTL (DLH)
ORIG 06327 (FAA)
NOTE: **Rwy 3,** multiple trees beginning 21' from DER, 226' right of centerline, up to 68' AGL/1477' MSL. Multiple trees beginning 246' from DER, 26' left of centerline, up to 64' AGL/1473' MSL. **Rwy 9,** electrical equipment 207' from DER, 408' left of centerline, 6' AGL/1425' MSL. **Rwy 21,** tower 3762' from DER, 410' left of centerline, 92' AGL/1522' MSL. **Rwy 27,** tree 2426' from DER, 1127' right of centerline, 53' AGL/1522' MSL. Bush and multiple trees beginning 347' from DER, 484' left of centerline, up to 44' AGL/1533' MSL.

EAGLE BUTTE, SD

CHEYENNE EAGLE BUTTE (84D)
ORIG 96228 (FAA)
TAKEOFF MINIMUMS: **Rwys 13,31,** 300-1.

ELBOW LAKE, MN

ELBOW LAKE MUNI-PRIDE OF THE PRAIRIE (Y63)
ORIG 13290 (FAA)
NOTE: **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.

ELLSWORTH AFB (KRCA),

RAPID CITY, SD . . . . . ORIG, 13178
TAKE-OFF OBSTACLES: **Rwy 13,** Terrain 3182' MSL, 0' from DER, 490' left of centerline. Terrain 3182' MSL, inward of DER, 500' left of centerline. **Rwy 31,** Building 12' AGL/3311' MSL, 1805' from DER, 762' left of centerline.

ELY, MN

ELY MUNI (ELO)
AMDT 3 12040 (FAA)
NOTE: **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)
AMDT 3 13066 (FAA)
TAKEOFF MINIMUMS: **Rwy 32,** 300-1¾ or std. w/ min. climb to 227' per NM to 1800.
DEPARTURE PROCEDURE: **Rwy 27**, northwest departures (270°-050°) climb heading 274° to 2000 before proceeding on course. **Rwy 32,** climb heading 304° to 2400 before proceeding on course.
NOTE: **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/1433' MSL. **Rwy 14,** vehicle on road beginning 63' from DER, crossing centerline left to right, up to 15' AGL/1385' MSL. Post 23' from DER, 150' right of centerline, 3' AGL/1372' MSL. Trees beginning 56' from DER, 298' right of centerline, up to 14' AGL/1382' MSL. Trees beginning 1863' from DER, 285' left of centerline, up to 72' AGL/1441' MSL. Rising terrain 13' from DER, 458' left of centerline, 1372' 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. **Rwy 32,** trees and vehicle on road beginning 377' from DER, 545' right of centerline, up to 85' AGL/1464' MSL. Aircraft on parking ramp beginning abeam DER, 332' left of centerline, up to 10' AGL/1389' MSL. Trees. beginning 813' from DER, crossing centerline left to right, up to 85' AGL/1464' MSL.

FAIRMONT, MN

FAIRMONT MUNI (FRM)
AMDT 3 09127 (FAA)
NOTE: **Rwy 2,** trees beginning 2466' 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.

14 NOV 2013 to 12 DEC 2013
14 NOV 2013 to 12 DEC 2013

FARGO, ND
HECTOR INTL (FAR)
AMDT 4A 11349 (FAA)
TAKEOFF MINIMUMS: **Rwys13,31,** NA.
NOTE: **Rwy 9,** tree 1876' from DER 686' left of centerline, 53' AGL/952' MSL. Tree 2620' from DER, 1100' right of centerline, 66' AGL/965' MSL. Road and vehicle beginning 420' from DER, 601' right of centerline, up to 15' AGL/913' MSL. Road and vehicle beginning 543' from DER, 619' left of centerline, up to 15' AGL/912' MSL. Runway end lights beginning 41' from DER, left and right of centerline, up to 3' AGL/901' MSL. Sign 39' from DER, 201' left of centerline, 2' AGL/900' MSL. Multiple light poles beginning 1082' from DER, left and right of centerline, up to 27' AGL/927' MSL. **Rwy 18,** road and vehicle 536' from DER, 19' right of centerline, 15' AGL/914' MSL. **Rwy 27,** road and vehicle beginning 451' from DER, 479' right of centerline, up to 15' AGL/910' MSL. Tree 2912' from DER, 944' left of centerline, 72' AGL/971' MSL. Runway end lights 42' from DER, 126' right of centerline, 2' AGL/898' MSL. **Rwy 36,** light support structure 11' from DER, 55' right of centerline, 1' AGL/901' MSL.

FARIBAULT, MN
FARIBAULT MUNI (FBL)
ORIG 10266 (FAA)
NOTE: **Rwy 12,** numerous trees beginning 73' from DER, 51' right and left of centerline, up to 100' AGL/1169' MSL. **Rwy 30,** numerous trees beginning 24' from DER, 266' right and left of centerline, up to 100' AGL/1189' MSL.

FERGUS FALLS, MN
FERGUS FALLS MUNI-EINAR MICKELSON FIELD (FFM)
ORIG 09239 (FAA)
NOTE: **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.

FOSSTON, MN
FOSSTON MUNI (FSE)
AMDT 2 12124 (FAA)
NOTE: **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 REIL 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)
ORIG 11013 (FAA)
TAKEOFF MINIMUMS: **Rwys 3,21,** NA - Environmental.
NOTE: **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)
AMDT 1 07018 (FAA)
NOTE: **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)
ORIG 09071 (FAA)
NOTE: **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, 166' left of centerline, up to 998' MSL. Terrain beginning 286' from DER, 435' right of centerline, up to 1001' MSL. **Rwy 31,** trees beginning 501' from DER, 530' right of centerline, up to 100' AGL/1099' MSL. Tree 2577' from DER, 129' left of centerline, 100' AGL/1109' MSL.

GLENWOOD, MN
GLENWOOD MUNI (GHW)
AMDT 3 10233 (FAA)
TAKEOFF MINIMUMS: **Rwys 5, 23** N/A Environmental.
NOTE: **Rwy 15,** road beginning 278' from DER, 521' left of centerline, 15' AGL/1414' MSL. Trees beginning 3257' from DER, 1239' right of centerline, up to 100' AGL/1489' MSL. Terrain beginning 42' from DER, 448' left of centerline, 1378' MSL. **Rwy 33,** trees 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.

GRAFTON, ND
HUTSON FIELD (GAF)
AMDT 1 10210 (FAA)
TAKEOFF MINIMUMS: **Rwys 8, 26,** NA-Environmental.
NOTE: **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)
AMDT 2 09071 (FAA)
NOTE: **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)
ORIG 09015 (FAA)
NOTE: **Rwy 9,** trees beginning 58' from DER, 168' right of centerline up to 54' AGL/1833' MSL. Bushes 112' from DER, 142' left of centerline, 11' AGL/1805' MSL. Tree 464' from DER, 75' left of centerline, 14' AGL/1813' MSL. **Rwy 27,** trees beginning 85' from DER, 187' left of centerline, up to 59' AGL/1858' MSL. Trees beginning 282' from DER, 115' right of centerline, up to 42' AGL/1861' MSL.

GRAND RAPIDS, MN
GRAND RAPIDS/ITASCA COUNTY-GORDON NEWSTROM FIELD (GPZ)
AMDT 4 09127 (FAA)
TAKEOFF MINIMUMS: **Rwys 5,10,23,28,** NA-Environmental.
NOTE: **Rwy 16,** tree 1655' from DER, 899' left of centerline, 51' AGL/1410' MSL. Tree 3236' from DER, 1130' right of centerline, 82' AGL/1441' MSL. **Rwy 34,** tree 3416' from DER, 1253' right of centerline, 100' AGL/1399' MSL.

GRANITE FALLS, MN
GRANITE FALLS MUNI/LENZEN-ROE MEML FLD (GDB)
ORIG 10126 (FAA)
NOTE: **Rwy 15,** trees beginning 1780' from DER, 94' left of centerline, up to 100' AGL/1149' MSL. **Rwy 33,** trees beginning 1196' from DER, right and left 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)
ORIG-A 10182 (FAA)
TAKEOFF MINIMUMS: **Rwy 31,** 400-2¼ or std. with a min. climb of 228' per NM to 2600.
NOTE: **Rwy 31,** tower 11377' from DER, 816' right of centerline, 210' AGL/2491' MSL.

GWINNER, ND
GWINNER-ROGER MELROE FIELD (GWR)
ORIG 09183 (FAA)
TAKEOFF MINIMUMS: **Rwys 6, 24,** NA-Environment. **Rwy 34,** Std. w/ min. climb of 216' per NM to 2000, or 900-2½ for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwy 34,** for climb in visual conditions, cross Gwinner-Roger Melroe Field at or above 2000, before proceeding on course.
NOTE: **Rwy 16,** terrain beginning 15' from DER, 73' right of centerline, 1257' MSL. **Rwy 34,** road and vehicle 436' from DER, on centerline, 15' AGL/1286' MSL.

HALLOCK, MN
HALLOCK MUNI (HCO)
ORIG 11125 (FAA)
NOTE: **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.

HARVEY, ND
HARVEY MUNI (5H4)
ORIG 10266 (FAA)
NOTE: **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)
ORIG 07074 (FAA)
NOTE: **Rwy 34,** road 15' from DER, 421' left of centerline, 15' AGL/1224' MSL.

HAZEN, ND
MERCER COUNTY RGNL (HZE)
ORIG 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.
NOTE: **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. **Rwy 32,** tree 1291' from DER, 592' right of centerline, 25' AGL/1833' MSL. Terrain 495' from DER, 360' left of centerline, 1803' MSL. Fence 5' from DER, 298' left of centerline, 8' AGL/1790' MSL. Tree 1444' from DER, 520' right of centerline, 25' AGL/1823' MSL.

HETTINGER, ND
HETTINGER MUNI (HEI)
AMDT 2 10154 (FAA)
TAKEOFF MINIMUMS: **Rwy 12,** 300-1 or std. with a min. climb of 324' per NM to 3000. **Rwys 17, 35,** NA-Environmental.
NOTE: **Rwy 30,** road plus vehicles beginning 63' from DER, crossing left to right, 15' AGL/2744' MSL. Trees beginning 4306' from DER, 17' right of centerline, 100' AGL/2819' MSL.

HIBBING, MN
RANGE RGNL (HIB)
AMDT 6 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.
NOTE: **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.

HILLSBORO, ND
HILLSBORO MUNI (3H4)
ORIG 97198 (FAA)
DEPARTURE PROCEDURE: **Rwys 16, 34,** climb runway heading to 2000 prior to turning westbound.

HINCKLEY, MN
FIELD OF DREAMS (04W)
ORIG 08045 (FAA)
NOTE: **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)
AMDT 1 12208 (FAA)
TAKEOFF MINIMUMS: **Rwy 6,** 24, NA-environmental. **Rwy 1,** 400-2½ or std. w/min. climb of 235' per NM to 3700. **Rwy 19,** 400-2¾ 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.
NOTE: **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 528' 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)
AMDT 5 09239 (FAA)
NOTE: **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 100' AGL/1389' 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. Trees beginning 251' from DER, 97' right of centerline, 52' AGL/1331' MSL.

HUTCHINSON, MN
HUTCHINSON MUNI-BUTLER FIELD (HCD)
ORIG 11181 (FAA)
NOTE: **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/1 099' MSL.

INTERNATIONAL FALLS, MN
FALLS INTL (INL)
AMDT 3 08101 (FAA)
NOTE: **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)
ORIG 08045 (FAA)
TAKEOFF MINIMUMS: **Rwys 4,22,** NA-TURF.
DEPARTURE PROCEDURE: **Rwy 13,** Climb heading 134°to 1900 before turning right.
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 1616' 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.

JAMESTOWN, ND
JAMESTOWN RGNL (JMS)
AMDT 1 07242 (FAA)
NOTE: **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)
ORIG 11125 (FAA)
NOTE: **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. **Rwy 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, 49' right of centerline, 40' AGL/2002' MSL. Trees beginning 1342' from DER, 85' right of centerline, up to 50' AGL/2014' MSL.

KINDRED, ND
HAMRY FIELD (K74)
ORIG 10042 (FAA)
NOTE: **Rwy 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)
ORIG 10154 (FAA)
TAKEOFF MINMUMS: **Rwys 8, 26,** NA - Environmental.
NOTE: **Rwy 14,** vehicles on road beginning 479' to 684' from DER, from 238' to 413' left of centerline, up to 15' AGL/1627' MSL. **Rwy 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, from 241' to 418' left of centerline, up to 78' AGL/1677' MSL.

LEMMON, SD
LEMMON MUNI (LEM)
AMDT 1 13234 (FAA)
TAKEOFF MINMUMS: **Rwys 7, 25,** NA - Environmental.
NOTE: **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)
ORIG 13234 (FAA)
NOTE: **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.

LITCHFIELD, MN
LITCHFIELD MUNI (LJF)
AMDT 1 10266 (FAA)
DEPARTURE PROCEDURE: **Rwy 31,** climb heading 316° to 1700 before turning left.
NOTE: **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 CHARLES A. LINDBERGH FIELD (LXL)
AMDT 4 11125 (FAA)
TAKEOFF MINIMUMS: **Rwy 13,** 300-1½ or std. with a min. climb of 301' per NM to 1500. **Rwy 36,** 600-2¼ or std. with a min. climb of 398' per NM to 1900.
DEPARTURE PROCEDURE: **Rwy 31**, climb heading 308° to 1600 before turning right.
NOTE: **Rwy 13,** numerous trees beginning 76' from DER, right and left of centerline, up to 100' AGL/1389' MSL. **Rwy 18,** numerous trees beginning 1525' from DER, right and left of centerline, up to 100' AGL/1224' MSL. **Rwy 31,** numerous trees beginning 1986' from DER, right and left of centerline, up to 100' AGL/1214' MSL. **Rwy 36,** numerous trees beginning 1194' from DER, 302' right of centerline, up to 100' AGL/1259' MSL. Multiple towers beginning 1.9 NM from DER, 1999' right of centerline, up to 512' AGL/1692' MSL. Trees 3047' from DER, 1149' left of centerline, up to 100' AGL/1219' MSL.

LONG PRAIRIE, MN
TODD FIELD (14Y)
ORIG 08157 (FAA)
NOTE: **Rwy 16,** tree 273' from DER, 310' right of centerline, 100' AGL/1436' MSL. **Rwy 34,** tree 70' from DER, 100' right of centerline, 100' AGL/1439' MSL. Tree 122' from DER, 105' left of centerline, 100' AGL/1436' MSL. Tree 18' from DER, 106' right of centerline, 100' AGL/1433' MSL.

LONGVILLE, MN
LONGVILLE MUNI (XVG)
ORIG 11349 (FAA)
TAKEOFF MINIMUMS: **Rwy 31,** 300-1½ or std. w/min. climb of 330' per NM to 1600.
NOTE: **Rwy 13,** trees beginning 237' from DER, 497' right of centerline, up to 100' AGL/1449' MSL. Trees beginning 286' from DER, 533' left of centerline, up to 100' AGL/1429' MSL. Trees beginning 1122' from DER, 4' left of centerline, up to 100' AGL/1429' MSL. **Rwy 31,** vehicles on roadway beginning 58' from DER. 59' left of centerline, up to 17' AGL/1366' MSL. Trees beginning 281' from DER, 559' right of centerline, up to 100' AGL/1519' MSL. Trees beginning 327' from DER, 115' left of centerline, up to 100' AGL/1479' MSL.

LUVERNE, MN
QUENTIN AANENSON FIELD (LYV)
ORIG 10154 (FAA)
NOTE: **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. **Rwy 36,** transmission tower, 5752' from DER, 1036' right of centerline, 139' AGL/1581' MSL.

MADISON, MN
LAC QUI PARLE COUNTY (DXX)
ORIG 12320 (FAA)
TAKEOFF MINIMUMS: **Rwys 9, 27,** NA-Environmental. **Rwy 32**, 300-1½ 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.
NOTE: **Rwy 14,** trees beginning 40' from DER, 463' right of centerline, up to 100' AGL/1081' MSL. Terrain 22' from DER, 175' left of centerline, 1080' MSL. **Rwy 32,** vehicles on roadway beginning 538' from DER, left to right of centerline, up to 15' AGL/1098' MSL. Trees beginning 1485' from DER, 790' left of centerline, up to 100' AGL/1152' MSL. Tower 1.2 NM from DER, 2112' right of centerline, 200' AGL/1277' MSL.

MADISON, SD
MADISON MUNI (MDS)
ORIG 11181 (FAA)
TAKEOFF MINIMUMS: **Rwys 3,21,** NA - environmental.
NOTE: **Rwy 15,** trees beginning 764' from DER, 284' left of centerline, up to 76' AGL/1766' MSL. Plant and fence beginning 65' from DER, 384' right of centerline, up to 24' AGL/1733' MSL. **Rwy 33,** road 82' from DER, 399' left of centerline, 23' AGL/1723' MSL. Road and trees beginning 131' from DER, 9' right of centerline, up to 100' AGL/1859' MSL.

MAHNOMEN, MN
MAHNOMEN COUNTY (3N8)
ORIG 13290 (FAA)
TAKEOFF MINIMUMS: **Rwys 9,27,** NA-Environmental.
NOTE: **Rwy 17,** terrain beginning 14' from DER, 402' right of centerline, up to 1248' MSL. **Rwy 35,** vehicles 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)
ORIG 11013 (FAA)
TAKEOFF MINIMUMS: **Rwys 4, 22,** NA-Environmental.
NOTE: **Rwy 13,** rising terrain, fence, and trees beginning 10' from DER, 89' left of centerline, up to 48' AGL/1988' MSL. Transmission lines and poles 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)
ORIG 09267 (FAA)
NOTE: **Rwy 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. **Rwy 15,** trees beginning 1552' from DER, 719' left of centerline, up to 100' AGL/1088' MSL. **Rwy 22,** trees beginning 2370' from DER, 989' right of centerline, up to 100' AGL/1069' MSL. **Rwy 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 1029' MSL. Terrain beginning 82' from DER, 60' left of centerline, up to 1029' MSL.

MARSHALL, MN
SOUTHWEST MINNESOTA RGNL MARSHALL/ RYAN FIELD (MML)
AMDT 2 08101 (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.
NOTE: **Rwy 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. **Rwy 30,** Vehicle on road 1' from DER, 435' left of centerline, 24' AGL/1200' MSL.

MC GREGOR, MN
ISEDOR IVERSON (HZX)
ORIG 11349 (FAA)
DEPARTURE PROCEDURE: **Rwy 14,** climb heading 139° to 1900 before turning left.
NOTE: **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)
ORIG 08101 (FAA)
TAKEOFF MINIMUMS: **Rwy 25,** Std. w/ a 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.
NOTE: **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)
ORIG 08269 (FAA)
NOTE: **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, 998' 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.

MINNEAPOLIS, MN

AIRLAKE (LVN)
ORIG 10154 (FAA)

NOTE: **Rwy 12,** ground 198' from DER, 533' right of centerline, 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 AIRPORT (JANES FIELD) (ANE)
AMDT 5A 10126 (FAA)

TAKEOFF MINIMUMS; **Rwy 9,** 300-1½ or std. w/ min. climb of 204' per NM to 1200, or alternatively, with standard takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1200' prior to DER. **Rwy 18,** 300-1 or std. w/ min. climb of 367' 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.

NOTE: **Rwy 9,** tank and multiple trees beginning 822' from DER, 619' right of centerline, up to 170' AGL/1082' MSL. Trees 2248' from DER, 966' left of centerline, 100' AGL/1009' MSL. **Rwy 18,** aircraft on taxiway 36' from DER, 481' right of centerline, up to 21' AGL/928' MSL. Multiple trees beginning 406' from DER, 287' left of centerline, up to 49' AGL/959' MSL. Tower 5016' from DER, 201' left of centerline, 120' AGL/1078' MSL. **Rwy 27,** multiple trees beginning 7' from DER, 235' right of centerline, up to 83' AGL/983' MSL. Multiple trees beginning 558' from DER, 406' left of centerline, up to 57' AGL/957'MSL. **Rwy 36,** multiple trees beginning 86' from DER, 10' right of centerline, up to 87' AGL/987' MSL. Multiple trees beginning 1282' from DER, 53' left of centerline, up to 70' AGL/970' MSL.

MINNEAPOLIS, MN (CON'T)

CRYSTAL (MIC)
AMDT 3 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.

NOTE: **Rwy 6L,** multiple trees beginning 514' from DER, 35' left of centerline, up to 66' AGL/945' MSL. Multiple trees beginning 836' from DER, 18' right of centerline, up to 76' AGL/945' 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, 121' right of centerline, up to 67' AGL/946' MSL. **Rwy 24R,** multiple trees beginning 1179' from DER, 110' left 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 32L,** multiple trees beginning 562' 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.

FLYING CLOUD (FCM)
AMDT 5 11069 (FAA)

NOTE: **Rwy 10L,** poles, buildings, trees, terrain, antenna on building beginning 28' from DER, 269' left of centerline, up to 46' AGL/945' MSL. Trees, sign, road, terrain beginning 86' from DER, 28' right of centerline, up to 28' AGL/937' MSL. **Rwy 10R,** trees, poles, buildings, utility poles, obstruction light on poles, beginning 15' from DER, 91' right of centerline, up to 34' AGL/943' MSL. **Rwy 28L,** trees beginning 2154' from DER, 1021' right of centerline, up to 70' AGL/953' MSL. **Rwy 28R,** trees, buildings, utility poles, beginning 7' from DER, 82' right of centerline, up to 39' AGL/938' MSL. **Rwy 18,** obstruction lights on fence, trees, road beginning 176' from DER, 127' left of centerline, up to 52' AGL/961' MSL. Floodlight, obstruction light on hanger, beginning 148' from DER, 316' right of centerline, up to 29' AGL/938' MSL. **Rwy 36,** poles, buildings, vent on building, utility poles, terrain beginning 45' from DER, 40' right of centerline, up to 67' AGL/966' MSL. Wind vane, trees, wind mill, sign, pole, fence, terrain, beginning 68' from DER, 206' left of centerline, up to 51' AGL/960' MSL.

MINNEAPOLIS, MN (CON'T)

MINNEAPOLIS-ST. PAUL INTL / WOLD-CHAMBERLAIN (MSP)
AMDT 12 13122 (FAA)

TAKEOFF MINIMUMS: **Rwy 12L,** 300-1½ or std. w/ min. climb of 207' per NM to 1100, or alternatively, with standard 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

NOTE: **Rwy 4,** trees beginning 800' from DER, 301' left of centerline, up to 75' AGL/925' MSL. Rod on building 2528' from DER, 1174' left of centerline, 78' AGL/922' MSL. Fence beginning 13' from DER, 486' left of centerline, up to 6' AGL/860' MSL. Stack 4535' from DER, 480' left of centerline, 139' AGL/949' 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,** tree 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. Building 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, 79' AGL/900' MSL. **Rwy 22,** trees beginning 2659' from DER, 867' right of centerline, 94' AGL/934' MSL. **Rwy 30L**, antenna on tower 3555' from DER, 1334' left of centerline, 116' AGL/935' MSL. **Rwy 30R,** billboard sign 1463' from DER, 848' right of centerline, 31' AGL/880' MSL. **Rwy 35,** trees beginning 2553' from DER, 770' right of centerline, 100' AGL/919' MSL. Trees beginning 1989' from DER, 194' left of centerline, up to 87' AGL/906' MSL. Buildings beginning 5.4 NM from DER, 1781' left of centerline, up to 889' AGL/1743' MSL.

MINOT, ND

MINOT INTL (MOT)
AMDT 3A 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.

NOTE: **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 2071' from DER, 60' left 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)
AMDT 1 86240 (FAA)

DEPARTURE PROCEDURE: **Rwys 12, 17,** climb to 1800 before turning.

MOBRIDGE, SD

MOBRIDGE MUNI(MBG)
AMDT 1 11181 (FAA)

TAKEOFF MINIMUMS: **Rwys 17,35,**NA - environmental

DEPARTURE PROCEDURE: **Rwy 12,** climb heading 118°to 2600 before turning left.

NOTE: **Rwy 12,** tower 2587' from DER, 651' right of centerline, 40' AGL/ 1810' MSL. Pole 3567' from DER, 12' right of centerline, 11' AGL/ 1790' MSL. Tree 1495' from DER, 230' right of centerline, 29' AGL/ 1738' MSL. Trees and poles beginning 1698' from DER, 160' left of centerline, up to 75' AGL/ 1811' MSL. Terrain and road beginning 153 from DER, 307' left of centerline, up to 17' AGL/1749' MSL. **Rwy 30,** terrain and road beginning 36' from DER, left to right across centerline, up to 17' AGL/1710' MSL.

MOHALL, ND

HOHALL MUNI (HBC)
ORIG 11293 (FAA)

NOTE: **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: **Rwy 21,** 400-1½.

DEPARTURE PROCEDURE: **Rwy 14,** climb runway heading to 1500 before turning.

MOORHEAD, MN

MOORHEAD MUNI (JKJ)
ORIG 11293 (FAA)

NOTE: **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 868' from DER, left and right of centerline, up to 48' AGL/965' MSL.

Rwy 30, tree 119' from DER, 104' left of centerline, 4' AGL/918' MSL. Poles beginning 1342' from DER, 855' right of centerline, up to 55' AGL/969' MSL.

MOOSE LAKE, MN

MOOSE LAKE CARLTON COUNTY (MZH)
ORIG 94006 (FAA)

TAKEOFF MINIMUMS: **Rwys 4, 22,** 300-1.

MORRIS, MN

MORRIS MUNI-CHARLIE SCHMIDT FLD (MOX)
ORIG 08045 (FAA)

TAKEOFF MINIMUMS: **Rwys 4, 22,** NA-Environmental.

NOTE: **Rwy 32,** Trees 2888' from DER, 1125' left of centerline, 100' AGL/1209' MSL.

NEW ULM, MN

NEW ULM MUNI (ULM)
ORIG 13122 (FAA)

NOTE: **Rwy 33,** tree 628' from DER, 417' right of centerline, 33' AGL/1034' MSL. Tree 1457' from DER, 650' left of centerline, 38' AGL/1047' MSL. Ground 4' from DER, 154' left of centerline, 1007' MSL. **Rwy 15,** tree 1935' from DER, 610' left of centerline, 100' AGL/1099' MSL.

NORTHWOOD, ND
NORTHWOOD MUNI-VINCE FIELD (4V4)
ORIG 12040 (FAA)
NOTE: **Rwy 8,** trees beginning 3317' from DER, 737' left of centerline, up to 100' AGL/1214' MSL. **Rwy 26,** trees beginning 1171' from DER, left and right of centerline, up to 100' AGL/1214' MSL.

OAKES, ND
OAKES MUNI (2D5)
AMDT 1 11125 (FAA)
NOTE: **Rwy 12,** trees beginning 2071' from DER, left and right of centerline, up to 100' AGL/1459' MSL. **Rwy 30,** trees beginning 2509' from DER, 744' left of centerline, up to 100' AGL/1454' MSL.

OLIVIA, MN
OLIVIA RGNL (OVL)
AMDT 1 86044 (FAA)
TAKEOFF MINIMUMS: **Rwy 11,** 300-1.

ORR, MN
ORR RGNL (ORB)
AMDT 2 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.
NOTE: **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/429' MSL. Trees beginning 867' from DER, 719' right of centerline, up to 80' AGL/1429' MSL. Trees beginning 5401' from DER, 148' right of centerline, up to 80' AGL/1449' MSL.

ORTONVILLE, MN
ORTONVILLE MUNI-MARTINSON FIELD (VVV)
ORIG 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)
AMDT 2 97030 (FAA)
DEPARTURE PROCEDURE: **Rwy 12,** climb runway heading to 1500 before turning on course.

PARK RAPIDS, MN
PARK RAPIDS MUNI-KONSHOK FIELD (PKD)
ORIG 11349 (FAA)
TAKEOFF MINIMUMS: **Rwys 17, 35,** NA - Environmental.
NOTE: **Rwy 13,** terrain abeam DER, right and left of centerline, up to 1449' MSL. Pole 881' from DER, 712' left of centerline, 25' AGL/1467' MSL. Trees beginning 1144' from DER, 640' left of centerline, up to 60' AGL/1509' MSL. **Rwy 31,** terrain abeam DER, right and left of centerline, up to 1459' MSL. Vehicles on road beginning 67' from DER, right and left of centerline, up to 17' AGL/1462' MSL. Trees beginning 359' from DER, 296' right of centerline, up to 100' AGL/1476' MSL. Trees beginning 799' from DER, 236' left of centerline, up to 100' AGL/1479' MSL.

PARKSTON, SD
PARKSTON MUNI (8V3)
ORIG 13290 (FAA)
NOTE: **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 662' 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)
ORIG 11013 (FAA)
TAKEOFF MINIMUMS: **Rwy 11,** 300-2 or std. w/min climb of 239' per NM to 1800. NA at night. **Rwy 29,** 300 -1¾ or std. w/min climb of 210' per NM to 1500. NA at night.
NOTE: **Rwy 11,** trees 3507' from DER, 1179' right of centerline, 60' AGL/1329' MSL. Antenna 1.6 NM from DER, 1705' left of centerline, 200' AGL/1470' MSL. Vehicle on road beginning 2216' from DER, left and right of centerline, 15' AGL/1244' MSL. Terrain 51' from DER, left and right of centerline 1188' MSL.
Rwy 29, trees 1328' from DER, 533' right of centerline, 60' AGL/1249' MSL. Trees 2062' from DER, 940' right of centerline, 60' AGL/1249' MSL. Buildings 619' from DER, 601' right of centerline, 20' AGL/1209' MSL. Power lines 1.3 NM from DER, 2625' left of centerline, 200' AGL/1399' MSL.

PEMBINA, ND
PEMBINA MUNI (PMB)
ORIG 85325 (FAA)
DEPARTURE PROCEDURE: **Rwy 33,** climb runway heading 3200 before turning left.

PERHAM, MN
PERHAM MUNI (16D)
AMDT 1 13234 (FAA)
DEPARTURE PROCEDURE: **Rwy 13,** climb heading 128° to 1900 before turning left.
NOTE: **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.

PIERRE, SD
PIERRE RGNL (PIR)
AMDT 2 85115 (FAA)
TAKEOFF MINIMUMS: **Rwy 25,** 300-1.

PINE RIDGE, SD
PINE RIDGE (IEN)
AMDT 1 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. w/min. climb of 407' per NM to 3600.
NOTE: **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 638' 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)
ORIG 12320 (FAA)
NOTE: **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 167' from DER, 406' right of centerline, up to 100' AGL/1101' MSL.

PINE RIVER, MN
PINE RIVER RGNL (PWC)
ORIG 12068 (FAA)
TAKEOFF MINIMUMS: **Rwy 16,** 300-1¼ or std. w/min. climb gradient of 218' per NM to 1500.
DEPARTURE PROCEDURE: **Rwy 16,** climb heading 160° to 1800 before turning right.
NOTE: **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, 76' right of centerline, 7' AGL/1298' MSL. Trees beginning 1267' from DER, 15' right of centerline, up to 100' AGL/1449' MSL. **Rwy 34,** trees beginning 13' from DER, 121' right of centerline, up to 65' AGL/1374' 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.

PIPESTONE, MN
PIPESTONE MUNI (PQN)
ORIG 08045 (FAA)
TAKEOFF MINIMUMS: **Rwys 9,27,** NA-Environmental.
NOTE: **Rwy 18,** Trees beginning 3811' from DER, 854' right of centerline, up to 100' AGL/1859' MSL.

PRESTON, MN
FILLMORE COUNTY (FKA)
ORIG 98113 (FAA)
TAKEOFF MINIMUMS: **Rwys 11,29,** 300-1.

PRINCETON, MN
PRINCETON MUNI (PNM)
AMDT 1 05132 (FAA)
NOTE: **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)
AMDT 7 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.
NOTE: **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 199' 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.

14 NOV 2013 to 12 DEC 2013
14 NOV 2013 to 12 DEC 2013

RAY S. MILLER AAF (KRYM)
CAMP RIPLEY, MN . . . . . AMDT 2, 09155
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)
AMDT 2 11013 (FAA)
TAKEOFF MINIMUMS: **Rwy 9,** std. w/ min. climb of 299' per NM to 1700
NOTE: **Rwy 9,** pole 1080' from DER, 554' left of centerline, 35' AGL/812' MSL. Trees beginning 1375' from DER, 387' left of centerline, up to 75' AGL/1114' MSL. Trees beginning 1231' from DER, 397' right of centerline, up to 49' AGL/1108' MSL. **Rwy 27,** trees beginning 3451' from DER, 584' left of centerline, up to 100' AGL/879' MSL. Trees beginning 406' from DER, 439' right of centerline, up to 100' AGL/879' MSL.

REDWOOD FALLS, MN
REDWOOD FALLS MUNI (RWF)
ORIG 09071 (FAA)
TAKEOFF MINIMUMS: **Rwys 5, 23,** NA-Environmental.
NOTE: **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. Vehicle on road 128' from DER, 306' right of centerline, 15' AGL/1027' MSL.

ROCHESTER, MN
ROCHESTER INTL (RST)
ORIG 09015 (FAA)
NOTE: **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 259' from DER, 407' 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)
ORIG 11013 (FAA)
TAKEOFF MINIMUMS: **Rwys 7, 25,** NA-Environmental.
NOTE: **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)
ORIG 07242 (FAA)
NOTE: **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.

RUGBY, ND
RUGBY MUNI (RUG)
ORIG 11237 (FAA)
NOTE: **Rwy 12,** trees and terrain beginning 13' from DER, 28' right of centerline, up to 100' AGL/1565' MSL. Trees and terrain beginning 140' from DER, 97' left of centerline, up to 100' AGL/1669' MSL. **Rwy 30,** trees and terrain beginning 84' from DER, 35' left of centerline, up to 100' AGL/1630' MSL. Trees and terrain beginning 146' from DER, 91' right of centerline, up to 100' AGL/1549' MSL.

RUSH CITY, MN
RUSH CITY RGNL (ROS)
ORIG 11041 (FAA)
NOTE: **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 (55Y)
AMDT 2 12096 (FAA)
DEPARTURE PROCEDURE: **Rwy 16,** climb heading 161° to 1800 before turning left.
NOTE: **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.

14 NOV 2013 to 12 DEC 2013
14 NOV 2013 to 12 DEC 2013

ST. CLOUD, MN

ST. CLOUD RGNL (STC)
ORIG 09239 (FAA)

TAKEOFF MINIMUMS: **Rwy 5,** 300-1¼ 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.

NOTE: **Rwy 5,** tower 6201' from DER, 1416' left of centerline, 149' AGL/1179' MSL. Multiple trees beginning 17' from DER, 373' right of centerline, up to 59' AGL/1081' MSL. Multiple trees beginning 1752' from DER, 56' left of centerline, up to 80' AGL/1102' MSL. **Rwy 13,** tree 1654' from DER, 884' right of centerline, 61' AGL/1078' MSL. Tree 1265' from DER, 794' left of centerline, 42' AGL/1059' MSL. **Rwy 23,** trees 2109' from DER, 29' right of centerline, up to 61' AGL/1082' MSL. Trees 1725' from DER, 93' left of centerline, up to 55' AGL/1076' MSL. Fence 74' from DER, 216' left of centerline, 2' AGL, 1023' 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)
ORIG 94342 (FAA)

DEPARTURE PROCEDURE: **Rwy 15,** climb to 1900 before turning eastbound.

ST. PAUL MN

LAKE ELMO (21D)
AMDT 1 11069 (FAA)

TAKEOFF MINIMUMS: **Rwy 14,** 400-2¼ or std. w/min. climb of 233' per NM to 1400.

DEPARTURE PROCEDURE: **Rwy 4,** climb heading 038°to 1600 before turning right.

NOTE: **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 252' from DER, 25' right of centerline, up to 100' AGL/1129' MSL. Trees beginning 857' from DER, 50' left of centerline, up to 100' AGL/1239' MSL. **Rwy 22,** trees, vehicles on road and building beginning 118' from DER, 89' right of centerline, up to 100' AGL/1039' MSL. Trees beginning 1519' from DER, 73' left of centerline, up to 84' AGL/1003' MSL. **Rwy 32,** trees beginning 943' from DER, 579' right of centerline, up to 100' AGL/1029' MSL. Trees and vehicles on road beginning 176' from DER, 515' left of centerline, up to 100' AGL/1029' MSL.

ST. PAUL MN (CON'T)

ST. PAUL DOWNTOWN HOLMAN FIELD (STP)
AMDT 8 11349 (FAA)

TAKEOFF MINIMUMS: **Rwy 9,** std. w/min. climb of 340' per NM to 1300. **Rwy 13,** std. w/min. climb of 230' per NM to 1500. **Rwy 27,** 600-2 or std. w/min. climb of 442' per NM to 1500. **Rwy 31**, NA-obstacles. **Rwy 32,** std. w/ min. climb of 340' per NM to 3000.

DEPARTURE PROCEDURE: **Rwy 9,** climb heading 088° to 1400 before proceeding on course. **Rwy 13,** climb heading 125°to 1300 before proceeding on course. **Rwy 14,** climb heading 143°to 1400 before proceeding on course. **Rwy 27,** climb heading 268°to 1700 before proceeding on course. **Rwy 32,** climb heading 323°to 1400 before proceeding on course.

NOTE: **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. Trees and pole beginning 1.1 NM from DER, left and right of centerline, up to 100' AGL/1099' MSL. **Rwy 13,** tree and tower beginning 1125' from DER, 609' left of centerline, up to 67' AGL/767' MSL. Tree, pole, vent on building, stacks, and obstruction light on stack beginning 1672' from DER, 55' right of centerline, up to 120' AGL/820' MSL. Trees beginning 1.9 NM from DER, 2938' left of centerline, up to 100' AGL/1020' MSL. **Rwy 14,** trees, obstruction light on DME antenna, and pole beginning 290' from DER, 1' right of centerline, up to 129' AGL/819' MSL. Trees and pole beginning 1099' from DER, 6' left of centerline, up to 87' AGL/777' MSL. **Rwy 27,** trees, light pole. and flagpole beginning 617' from DER, 198' left of centerline, up to 119' AGL/829' MSL. Obstruction light on antenna, buildings, tower, and tree beginning 810' from DER, 26' right of centerline, up to 165' AGL/955' MSL. Trees and building beginning 3886' from DER, 120' left of centerline, up to 84' AGL/ 1014' MSL. Tower 1.7 NM from DER, 633' left of centerline, 569' AGL/1279' MSL. **Rwy 32,** vehicle on road, trees, railroad, poles, and navaid beginning 179' from DER, 267' right of centerline, up to 58' AGL/758' MSL. Vehicle on road, railroad, and trees beginning 192' from DER, up to 59' AGL/759' MSL. Navaid 257' from DER, on centerline, 26' AGL/726' MSL. Trees, poles, buildings, and tower beginning 3674' from DER, 616' right of centerline, up to 157' AGL/ 973' MSL. Trees, buildings, tower, sign, and stack beginning 1924' from DER, 378' left of centerline, up to 143' AGL/969' MSL.

SAUK CENTRE, MN

SAUK CENTRE MUNI (D39)
ORIG 11237 (FAA)

TAKEOFF MINIMUMS: **Rwys 8, 26,** NA -Environmental.

NOTE: **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.

14 NOV 2013 to 12 DEC 2013
14 NOV 2013 to 12 DEC 2013

SILVER BAY, MN

SILVER BAY MUNI (BFW)
AMDT1 10322 (FAA)

TAKEOFF MINIMUMS: **Rwy 7,** 500-3 or std. w/min. climb of 240' per NM to 1700. **Rwy 25,** 400-2½ or std. w/ min. climb of 215' per NM to 1600 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 PROCEDURE: **Rwy 7,** Climb heading 087° to 1700 before turning left.

NOTE: **Rwy 7,** vehicles on roadway 4' from DER, 257' right of centerline, up to 16' AGL/1155' MSL. Trees beginning 7' from DER,104' right of centerline, up to 100' AGL/1509' MSL. Hangar 268' from DER, 268' left of centerline, 30' AGL/1149' MSL. Trees beginning 1088' from DER, 774' left of centerline, up to 100' AGL/1549' MSL. **Rwy 25,** trees beginning 170' from DER, 152' right of centerline, up to 100' AGL/1419' MSL. Trees beginning 4' from DER, 164' left of centerline, up to 100' AGL/1229' MSL.

SIOUX FALLS, SD

JOE FOSS FIELD (FSD)
AMDT 8 13234 (FAA)

TAKEOFF MINIMUMS: **Rwy 33,** 200-1¼ or std. w/ min. climb of 343' per NM to1700.

DEPARTURE PROCEDURE: **Rwy 3,** climb heading 030° to 2300 before turning eastbound. **Rwy 9,** climb heading 098° to 2000, then left turn direct FSD VORTAC, continue climb in FSD VORTAC holding pattern (hold NW, left turns, 147° inbound) to cross FSD VORTAC at or above MEA for route of flight: **Rwy 15,** climb heading 150° to 2000, then right turn direct FSD VORTAC, continue climb in FSD VORTAC holding pattern (hold NW, left turns, 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 27,** climb heading 278° to 2300 before turning eastbound. **Rwy 33,** climb heading 330° to 2300 before turning eastbound.

NOTE: **Rwy 3,** vehicles on road 20' from DER, 448' left of centerline, 21' AGL/1441' MSL. Light support 24' from DER, 85' left of centerline, 11' AGL/1431' MSL. Trees beginning 1200' from DER, 682' left of centerline, up to 42' AGL/1462' MSL. Trees beginning 2085' from DER, 908' right of centerline, up to 64' AGL/1493' MSL. **Rwy 9,** vehicles on road beginning 50' from DER, 474' left of centerline, 18' AGL/1438' MSL. Multiple poles beginning 1257' from DER, 22' left of centerline, up to 56' AGL/1476' MSL. Navaid and windsock beginning 324' from DER, 460' right of centerline, up to 13' AGL/1433' MSL. Multiple poles beginning 1806' from DER, 136' right of centerline, up to 55' AGL/1475' MSL. Crane, buildings, antenna on building, trees, and multiple transmission towers beginning 1949' from DER, 462' right of centerline, up to 122' AGL/1562' MSL. **Rwy 15,** light support 10' from DER, 39' left of centerline 4' AGL/1424' MSL. Multiple poles, buildings, trees, and transmission towers beginning 553' from DER, 220' left of centerline, up to 100' AGL/1559' MSL. Vehicles on road beginning 194' from DER, 551' right of centerline, 16' AGL/1436' MSL . Multiple poles and trees beginning 1330' from DER, 19' right of centerline, up to 88' AGL/1536' MSL. **Rwy 21,** sign 7' from DER, 304' left of centerline, 6' AGL/1426' MSL. Vehicles on road 393' from DER, 531' left of centerline, 15' AGL/1435' MSL. Multiple trees beginning 866' from DER, 149' left of centerline, up to 100' AGL/1529' MSL. Vehicles on road 385' from DER, 456' right of centerline, 17' AGL/1437' MSL. Multiple trees beginning 424' from DER, 25' right of centerline, up to 84' AGL/1504' MSL. **Rwy 27,** sign 27' from DER, 240' right of centerline, 5' AGL/1425' MSL. Trees beginning 1423' from DER, 793' right of centerline, up to 76' AGL/1496' MSL. Navaids beginning 1818' from DER, 831' left of centerline, 50' AGL/1471' MSL. Trees beginning 2158' from DER, 386' left of centerline, up to 76' AGL/1496' MSL. **Rwy 33,** navaid 34' from DER, 115' right of centerline, 11' AGL/1431' MSL. Multiple poles and trees beginning 3491' from DER, 15' right of centerline, up to 100' AGL/1579' MSL. Navaid 34' from DER, 115' left of centerline, 11' AGL/1431' MSL. Vehicles on road beginning 116' from DER, 496' left of centerline, 21' AGL/1441' MSL. Tank, navaids, poles, trees, and towers beginning 2295' from DER, 80' left of centerline, up to 100' AGL/1610' MSL.

14 NOV 2013 to 12 DEC 2013
14 NOV 2013 to 12 DEC 2013

SLAYTON, MN
SLAYTON MUNI (DVP)
ORIG 11265 (FAA)
NOTE: **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.

SPEARFISH, SD
BLACK HILLS-CLYDE ICE FIELD (SPF)
AMDT 1 11153 (FAA)
TAKEOFF MINIMUMS: **Rwys 4, 8, 22, 26,** NA - Environmental. **Rwy 13,** std. w/min. climb of 334' per NM to 6300. **Rwy 31,** 400-1¾ or std. w/min. climb of 329' per NM to 4400.
DEPARTURE PROCEDURE: **Rwy 13,** climbing heading 109°to 6300, then climbing left turn to intercept SPF NDB 090°bearing inbound, thence ... **Rwy 31,** climb to 6000 then climbing right turn to intercept SPF NDB 330°bearing inbound, thence ... ... enter SPF holding pattern (Northeast, right turn, 226°inbound), continue climb in hold to enroute MEA before proceeding on course.
NOTE: **Rwy 13,** terrain 175' from DER, 478' right of centerline, 3903' MSL. **Rwy 31,** structure 127' from DER, on centerline, 8' AGL/3888' MSL. Terrain 52' from DER, 497' left of centerline, 3918' MSL. Pole 734' from DER, 572' left of centerline, 9' AGL/3986' MSL. Terrain 195' from DER, 499' right of centerline, 3916' MSL. Pole 285' from DER, 311' right of centerline, 9' AGL/3978' MSL. Trees 1.3 NM from DER, 2481' right of centerline, up to 100' AGL/4225' MSL.

SPRINGFIELD, MN
SPRINGFIELD MUNI (D42)
ORIG 13010 (FAA)
NOTE: **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.

STANLEY, ND
STANLEY MUNI (08D)
ORIG 11013 (FAA)
NOTE: **Rwy 27,** Power line beginning 23' from DER, right to left of centerline, up to 40' AGL/2299' MSL.

STAPLES, MN
STAPLES MUNI (SAZ)
AMDT 3 12152 (FAA)
TAKEOFF MINIMUMS: **Rwy 14,** 400-2 or std. w/min. climb of 285' per NM to 1800.
NOTE: **Rwy 14,** towers beginning 1.60 NM from DER, 1868' right of centerline, up to 367' AGL/1634' MSL. Vehicles on road and trees beginning 38' from DER, 76' right of centerline, up to 63' AGL/1332' MSL. Vehicles on road, trees and pole beginning 38' from DER, 77' left of centerline, up to 63' AGL/1342' MSL. **Rwy 32,** vehicles on road and trees beginning 228' from DER, 8' right of centerline, up to 85' AGL/1374' MSL. Vehicles on road and trees beginning 2' from DER, 18' left of centerline, up to 79' AGL/1368' MSL.

STURGIS, SD
STURGIS MUNI (49B)
AMDT 1 11181 (FAA)
DEPARTURE PROCEDURE: **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.
NOTE: **Rwy 29,** trees 63' from DER, 271' right of centerline, up to 20' AGL/3265' MSL. Ground 134' from DER, 443' left of centerline, 3248' MSL.

THIEF RIVER FALLS, MN
THIEF RIVER FALLS RGNL (TVF)
ORIG 09071 (FAA)
NOTE: **Rwy 3,** trees beginning 3058' from DER, 678' right of centerline, up to 100' AGL/1229' MSL. **Rwy 13,** trees beginning 565' from DER, 372' left of centerline, up to 100' AGL/1214' MSL. Trees beginning 1337' from DER, 531' right of centerline, up to 100' AGL/1209' MSL. **Rwy 21,** trees beginning 214' from DER, 544' right of centerline, up to 100' AGL/1204' MSL. Trees beginning 2185' from DER, 33' left of centerline, up to 100' AGL/1209' MSL. **Rwy 31,** trees beginning 126' from DER, 410' right of centerline, up to 100' AGL/1214' MSL. Trees beginning 199' from DER, 413' left of centerline, up to 100' AGL/1209' MSL. Trees beginning 1204' from DER, 449' right of centerline, up to 100' AGL/1199' MSL. Trees beginning 1579' from DER, 495' left of centerline, up to 100' AGL/1214' MSL.

TIOGA, ND
TIOGA MUNI (D60)
ORIG 09239 (FAA)
TAKEOFF MINIMUMS: **Rwys 3, 21,** NA-Environmental.
NOTE: **Rwy 12,** vehicle on road 1243' from DER, 78' left of centerline, 15' AGL/2304' MSL. Vehicle on road, tree and pole beginning 618' from DER, 50' right of centerline, up to 100' AGL/2419' MSL. Ground 21' from DER, 481' right of centerline, 2272' MSL. **Rwy 30,** vehicle on road 1' from DER, 144' left of centerline, 15' AGL/2256' MSL.

TOWER, MN
TOWER MUNI (12D)
ORIG 09127 (FAA)
TAKEOFF MINIMUMS: **Rwy 8,** NA - Obstacles.
NOTE: **Rwy 26,** tree 2315' from DER, 700' right of centerline, 100' AGL/1479' MSL.

TRACY, MN
TRACY MUNI (TKC)
ORIG 11013 (FAA)
TAKEOFF MINIMUMS: **Rwys 6,17, 24, 35,** NA-Environmental. **Rwy 29,** 300-2 ¼ or std. w/ min. climb of 250' per NM to 1800.
NOTE: **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. HE'GESON (TWM)
ORIG 11181 (FAA)
TAKEOFF MINIMUMS: **Rwys 15,33,** NA - environmental.
NOTE: **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)
ORIG 10098 (FAA)
NOTE: **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 198' from DER, 299' right of centerline, 4' AGL/1408' MSL. Trees beginning 365' from DER, 10' left of centerline, up to 40' AGL/1457' MSL. Tree 545' from DER, 607' right of centerline, 16' AGL/1436' MSL.

VERMILLION, SD
HAROLD DAVIDSON FIELD (VMR)
AMDT 1 09239 (FAA)
NOTE: **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)
AMDT 1 13234 (FAA)
NOTE: **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.

WAGNER, SD
WAGNER MUNI (AGZ)
ORIG 13290 (FAA)
TAKEOFF MINIMUMS: **Rwys 14, 32,** NA-Environmental.
NOTE: **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 781' from DER, 416' left of centerline, up to 26' AGL/1491' MSL. Trees beginning 881' from DER, 229' right of centerline, up to 40' AGL/1505' 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. Vehicles on roadway 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)
AMDT 1 11181 (FAA)
TAKEOFF MINIMUMS: **Rwys 3,21,** NA - environmental.
NOTE: **Rwy 15,** trees beginning 1020' from DER, 114' left of centerline, up to 74' AGL/ 1033' MSL. Trees beginning 2753' from DER, 457' 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. Trees beginning 1326' from DER, 15' left of centerline, up to 75' AGL/1039' MSL.

WALHALLA, ND
WALHALLA MUNI (96D)
ORIG 11125 (FAA)
TAKEOFF MINIMUMS: **Rwy 15,** 400-2¾ or std. w/min. climb gradient of 260' per NM to 1500.
DEPARTURE PROCEDURE: **Rwy 15,** Climb heading 164°to 1500 before turning right.
NOTE: **Rwy 15,** vehicles on roadway beginning 478' from DER, 583' right of centerline, 15' AGL/969' MSL. Trees beginning 734' from DER, 623' right to 708' left of centerline, up to 100' AGL/1054' MSL. **Rwy 33,** trees beginning 53' from DER, 12' left to 654' right of centerline, up to 100' AGL/1 049' MSL. Power lines beginning 81' from DER, 266' left of centerline, up to 70' AGL/1019' MSL. Vehicles on roadway beginning 113' from DER, 490' left of centerline, 15' AGL/964' MSL.

WARREN, MN
WARREN MUNI (D37)
ORIG 02108 (FAA)
DEPARTURE PROCEDURE: **Rwy 30,** climb runway heading to 1400 before turning on course.

WARROAD, MN
WARROAD INTL MEMORIAL (RRT)
ORIG 08101 (FAA)
TAKEOFF MINIMUMS: **Rwys 4, 22,** NA-Environmental.

WASECA, MN
WASECA MUNI (ACQ)
ORIG 09015 (FAA)
NOTE: **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)
ORIG 07242 (FAA)
NOTE: **Rwy 12,** tree 2015' from DER, 328' right of centerline, 100' AGL/1783' MSL. **Rwy 30,** trees 2149' from DER, 10' right of centerline, 51' AGL/1810' MSL. Tree 2200' from DER, 441' left of centerline, 70' AGL/1810' MSL. Tree 2082' from DER, 121' right of centerline, 55' AGL/1806' MSL.

WATFORD CITY, ND
WATFORD CITY MUNI (S25)
AMDT 1 10154 (FAA)
TAKEOFF MINIMUMS: **Rwy 12,** 400-1¼ or std. with a min. climb of 462' per NM to 2600. **Rwys 18, 36,** NA-Environmental.
NOTE: **Rwy 12,** tree 5528' from DER, 1819' right of centerline, up to 100' AGL/2439' MSL. Vehicle 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.

WHEATON, MN
WHEATON MUNI (ETH)
AMDT 1 92177 (FAA)
TAKEOFF MINIMUMS: **Rwy 16,** 300-1. **Rwys 4, 22,** NA.

WILLISTON, ND
SLOULIN FIELD INTL (ISN)
AMDT 4 10210 (FAA)
TAKEOFF MINIMUMS: **Rwy 29,** 400-2¼ or std. with a min. climb of 359' per NM to 2200.
DEPARTURE PROCEDURE: **Rwy 11,** climb heading 115°to 2400 before turning left.
NOTE: **Rwy 2,** trees 1212' from DER, 398' left of centerline, up to 100' AGL/2019' MSL. **Rwy 11,** trees 831' from DER, 686' right of centerline, up to 100' AGL/1999' MSL. **Rwy 20,** trees 610' from DER, 450' right of centerline, up to 100' AGL/2019' MSL. Trees 1204' from DER, 128' left of centerline, up to 100' AGL/2019' MSL. Poles beginning from DER, 61' right of centerline, up to 44' AGL/1954' MSL. Building 1811' from DER, 371' right of centerline, 65' AGL/1980' MSL. **Rwy 29,** terrain beginning 639' from DER, 179' left of centerline, up to 2150' MSL. Terrain beginning 645' from DER, 305' right of centerline, up to 2103' MSL. Fence 1341' from DER, 210' right of centerline, 10' AGL/2021' MSL. Fence beginning 966' from DER, 250' left of centerline, up to 10' AGL/2029' MSL. Obstruction light on LOC 999' from DER, on centerline, 5' AGL/2014' MSL. Antenna on building 1000' from DER, 270' right of centerline, 29' AGL/2018' MSL. CHY on building 1165' from DER, 791' right of centerline, 29' AGL/2040' MSL. Building 2345' from DER, 519' left of centerline, 29' AGL/2066' MSL. T-L tower 3480' from DER, 237' right of centerline, 77' AGL/2137' MSL. Obstruction light pole 3478' from DER, 247' right of centerline, 82' AGL/2137' MSL. Rod on obstruction light pole 3692' from DER, 392' left of centerline, 68' AGL/2147' MSL. T-L tower 3700' from DER, 403' left of centerline, 82' AGL/2147' MSL. Tree 1.2 NM from DER, 1557' right of centerline, 27' AGL/2186' MSL. Tree 1.9 NM from DER, 2091' right of centerline, 100' AGL/2309' MSL.

WINDOM, MN
WINDOM MUNI (MWM)
ORIG 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.
NOTE: **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)
ORIG 06327 (FAA)
NOTE: **Rwy 31,** tree 1338' from DER, 740' left of centerline, 67' AGL/1193' MSL.

WINNER, SD
WINNER RGNL (ICR)
AMDT 3 09127 (FAA)
TAKEOFF MINIMUMS: **Rwys 3, 21,** NA-Environmental.

WINONA, MN

WINONA MUNI-MAX CONRAD FIELD (ONA)
AMDT 4 12264 (FAA)

TAKEOFF MINIMUMS: **Rwy 17,** NA - Obstacles. **Rwy 30,** std. w/min. climb of 425' per NM to 1300 or 600-3 w/min. climb of 300' per NM to 1700 or 1400-2½ for climb in visual conditions. **Rwy 35,** std. w/min. climb of 295' per NM to 1600 or 1400-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12,** climb to 1900 on ONA R-110 before turning. **Rwy 30,** climb heading 298° to 1400 before turning, or for climb in visual conditions, cross Winona Muni-Max Conrad Field or above 1900 before proceeding on course. When executing a VCOA, notify ATC prior to departure. **Rwy 35,** climb heading 355° to 1600 before turning, or for climb in visual conditions, cross Winona Muni-Max Conrad Field at or above 1900 before proceeding on course. When executing a VCOA, notify ATC prior to departure.

NOTE: **Rwy 12,** fence beginning 92' from DER, 102' right of centerline, 5' AGL/660' MSL. Bush 101' from DER, 102' right of centerline, 9' AGL/658' MSL. Trees beginning 171' from DER, left and right of centerline, up to 83' AGL/732' MSL. **Rwy 30,** trees beginning 38' from DER, 233' right of centerline, up to 28' AGL/677' MSL. Tree 164' from DER, 325' left of centerline, 20' AGL/669' MSL. Trees beginning 1042' from DER, 771' right of centerline, up to 58' AGL/712' MSL. **Rwy 35,** trees beginning 61' from DER, left and right of centerline, up to 86' AGL/745' MSL.

WORTHINGTON, MN

WORTHINGTON MUNI (OTG)
AMDT 3 13010 (FAA)

TAKEOFF MINIMUMS: **Rwy 18,** 300-1½ or std w/min. climb of 233' per NM to 1900, or alternately, with standard 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.

NOTE: **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)
AMDT 2 85003 (FAA)

TAKEOFF MINIMUMS: **Rwy 31,** 300-1.

DEPARTURE PROCEDURE: **Rwys 1, 13, 19, 31,** climb runway heading to 2400 before turning.