

INSTRUMENT APPROACH PROCEDURE CHARTS

**A** IFR ALTERNATE AIRPORT MINIMUMS

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

NAME ALTERNATE MINIMUMS

**AUBURN/LEWISTON, ME**

AUBURN/LEWISTON  
MUNI (LEW).....**ILS or LOC Rwy 4<sup>1</sup>**  
**RNAV (GPS) Rwy 4<sup>2</sup>**  
**RNAV (GPS) Rwy 22<sup>3</sup>**

<sup>1</sup>ILS, Categories A, B, 800-2; Category C, 800-2½;  
Category D, 900-2¾; LOC, NA.

<sup>2</sup>Category C, 800-2¼; Category D, 900-2¾;

<sup>3</sup>NA when local weather not available.

**AUGUSTA, ME**

AUGUSTA  
STATE (AUG).....**ILS or LOC Rwy 17<sup>1</sup>**  
**RNAV (GPS) Rwy 8<sup>2</sup>**  
**RNAV (GPS) Rwy 17<sup>2</sup>**  
**RNAV (GPS) Rwy 35<sup>3</sup>**  
**VOR Rwy 35<sup>2</sup>**

NA when local weather not available.

<sup>1</sup>ILS, LOC, Category D 900-2½.

<sup>2</sup>Category D, 900-2½.

<sup>3</sup>Category D, 800-2½.

**BANGOR, ME**

BANGOR INTL (BGR).....**ILS or LOC Rwy 33<sup>1</sup>**  
**ILS Y or LOC Y Rwy 15<sup>2</sup>**  
**RADAR-1<sup>3</sup>**  
**RNAV (GPS) Rwy 15<sup>3</sup>**  
**RNAV (GPS) Rwy 33<sup>3</sup>**

<sup>1</sup>ILS, LOC, Categories A, B, 1200-2; Categories C,  
D, E, 1200-3.

<sup>2</sup>ILS, Category D, 700-2; Category E, 700-2½;

LOC, Category E, 800-2½.

<sup>3</sup>Category E, 800-2½.

**BAR HARBOR, ME**

HANCOCK COUNTY/  
BAR HARBOR (BHB).....**ILS or LOC Rwy 22<sup>1</sup>**  
**RNAV (GPS) Rwy 4<sup>2</sup>**  
**RNAV (GPS) Rwy 22<sup>2</sup>**

<sup>1</sup>LOC, Category D, 800-2½.

<sup>2</sup>Category D, 800-2½.

NAME ALTERNATE MINIMUMS

**BEDFORD, MA**

LAURENCE G HANSCOM  
FLD (BED).....**ILS or LOC Rwy 11<sup>12</sup>**  
**ILS or LOC Rwy 29<sup>12</sup>**  
**RNAV (GPS) Rwy 23<sup>34</sup>**  
**RNAV (GPS) Z Rwy 11<sup>34</sup>**  
**RNAV (GPS) Z Rwy 29<sup>3</sup>**

<sup>1</sup>NA when control tower closed.

<sup>2</sup>LOC, Category C, 800-2¼; Category D, 800-2½.

<sup>3</sup>Category C, 800-2¼; Category D, 800-2½.

<sup>4</sup>NA when local weather not available.

**BERLIN, NH**

BERLIN  
RGNL (BML).....**RNAV (GPS) Rwy 18**  
Category A, 1100-2; Category B, 1200-2;  
Category C, 1500-3; Category D, 1600-3.

**BEVERLY, MA**

BEVERLY RGNL (BVY).....**LOC Rwy 16<sup>12</sup>**  
**RNAV (GPS) Rwy 9<sup>2</sup>**  
**RNAV (GPS) Rwy 16<sup>3</sup>**  
**RNAV (GPS) Rwy 27<sup>2</sup>**  
**RNAV (GPS) Rwy 34<sup>2</sup>**

NA when local weather not available.

<sup>1</sup>NA when tower closed.

<sup>2</sup>Category D, 800-2½.

<sup>3</sup>Category D, 800-2¼.

**BLOCK ISLAND, RI**

BLOCK ISLAND  
STATE (BID).....**RNAV (GPS) Rwy 10**  
**RNAV (GPS) Rwy 28**  
**VOR Rwy 28**

NA when local weather not available.

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**FALMOUTH, MA**

CAPE COD COAST GUARD AIR STATION (FMH).....**ILS Z or LOC Z Rwy 23<sup>1</sup>**  
**RNAV (GPS) Rwy 5<sup>2</sup>**  
**RNAV (GPS) Rwy 14<sup>2</sup>**  
**RNAV (GPS) Rwy 23<sup>2,3</sup>**  
**RNAV (GPS) Rwy 32<sup>2</sup>**

<sup>1</sup>LOC, Category C, 800-2¼; Category D, 800-2½.  
<sup>2</sup>Category C, 800-2¼; Category D, 800-2½.  
<sup>3</sup>NA when local weather not available.

**FITCHBURG, MA**

FITCHBURG MUNI (FIT).....**RNAV (GPS) Rwy 14<sup>1</sup>**  
**RNAV (GPS) Rwy 32<sup>2</sup>**

NA when local weather not available.  
<sup>1</sup>Categories A, B, 1100-2; Category C, 1200-3.  
<sup>2</sup>Category B, 1100-2; Category C, 1200-3.

**FRENCHVILLE, ME**

NORTHERN AROOSTOOK RGNL (FVE).....**RNAV (GPS) Rwy 14**  
**RNAV (GPS) Rwy 32**

NA when local weather not available.  
Category C, 900-2½; Category D, 900-2¾.

**FRYEBURG, ME**

EASTERN SLOPES RGNL (IZG).....**RNAV (GPS) Rwy 32**  
NA when local weather not available.  
Category A, 900-2; Category B, 1000-2;  
Category C, 1200-3.

**GREENVILLE, ME**

GREENVILLE MUNI (3B1).....**RNAV (GPS) RWY 14**  
NA when local weather not available.  
Category A, B, 1100-2; Category C, 1100-3;  
Category D, 1200-3.

**GROTON (NEW LONDON), CT**

GROTON-NEW LONDON (GON).....**ILS or LOC Rwy 5<sup>1,2</sup>**  
**RNAV (GPS) Rwy 5<sup>3,4</sup>**  
**RNAV (GPS) Rwy 23<sup>3,4</sup>**  
**VOR Rwy 5<sup>3,4</sup>**  
**VOR Rwy 23<sup>3,4</sup>**

<sup>1</sup>NA when control tower closed.  
<sup>2</sup>LOC, Category D, 900-2¾.  
<sup>3</sup>NA when local weather not available.  
<sup>4</sup>Category D, 900-2¾.

**HARTFORD, CT**

HARTFORD-BRAINARD (HFD).....**LDA Rwy 2<sup>1,3</sup>**  
**RNAV (GPS) Rwy 2<sup>1</sup>**  
**VOR-A<sup>2</sup>**

<sup>1</sup>Category B, 900-2; Category C, 1000-2¼; Category D, 1000-3.  
<sup>2</sup>Categories A, B, 1200-2; Categories C, D, 1200-3.  
<sup>3</sup>NA when control tower closed.

NAME ALTERNATE MINIMUMS

**HIGHGATE, VT**

FRANKLIN COUNTY STATE (FSO).....**RNAV (GPS) Rwy 1<sup>1</sup>**  
**RNAV (GPS) Rwy 19**

NA when local weather not available.  
<sup>1</sup>Categories A, B, 800-2½.

**HOULTON, ME**

HOULTON INTL (HUL).....**RNAV (GPS)-A**  
**RNAV (GPS) Rwy 5**  
NA when local weather not available.

**HYANNIS, MA**

CAPE COD GATEWAY (HYA).....**ILS or LOC Rwy 15<sup>1,2</sup>**  
**ILS or LOC Rwy 24<sup>1,2</sup>**  
**RNAV (GPS) Rwy 6<sup>3</sup>**  
**RNAV (GPS) Rwy 15<sup>3</sup>**  
**RNAV (GPS) Rwy 24<sup>3</sup>**  
**RNAV (GPS) Rwy 33<sup>3</sup>**  
**VOR Rwy 6<sup>4</sup>**

NA when local weather not available.  
<sup>1</sup>NA when control tower closed.  
<sup>2</sup>ILS, LOC, Category C, 900-2¼; Category D, 900-2½.  
<sup>3</sup>Category C, 900-2¼; Category D, 900-2½.  
<sup>4</sup>Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.

**JACKMAN, ME**

NEWTON FLD (59B).....**RNAV (GPS) Rwy 13<sup>1,2</sup>**  
**RNAV (GPS) Y Rwy 31<sup>3</sup>**

<sup>1</sup>NA when local weather not available.  
<sup>2</sup>Category A, 1100-2; Category B, 1200-2; Category C, 1400-3.  
<sup>3</sup>Category A, 1000-2; Category B, 1200-2; Category C, 1400-3.

**JAFFREY, NH**

JAFFREY/SILVER RANCH (AFN).....**RNAV (GPS)-B**  
**RNAV (GPS)-C**  
**VOR-A<sup>1</sup>**

NA when local weather not available.  
<sup>1</sup>Categories A, B, 900-2.

**KEENE, NH**

DILLANT-HOPKINS (EEN).....**RNAV (GPS) Rwy 2**  
NA when local weather not available.  
Category A, 900-2; Category B, 1000-2;  
Category C, 1300-3; Category D, 1500-3.

**LACONIA, NH**

LACONIA MUNI (LCI).....**ILS or LOC Rwy 8<sup>1</sup>**  
**RNAV (GPS) Rwy 8<sup>2</sup>**  
**RNAV (GPS) Rwy 26<sup>2</sup>**

NA when local weather not available.  
<sup>1</sup>LOC, Categories A, B, 1500-2; Categories C, D, 1500-3.  
<sup>2</sup>Category C, 1700-3; Category D, 2400-3.

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**NAME ALTERNATE MINIMUMS****LAWRENCE, MA**

LAWRENCE  
MUNI (LWM).....**ILS or LOC Rwy 5<sup>12</sup>**  
**RNAV (GPS) Rwy 5<sup>3</sup>**  
**RNAV (GPS) Rwy 23<sup>3</sup>**

<sup>1</sup>NA when control tower closed.<sup>2</sup>LOC, Category D, 1100-3.<sup>3</sup>Category D, 1100-3.**LEBANON, NH**

LEBANON  
MUNI (LEB).....**ILS or LOC Rwy 18<sup>1</sup>**  
**RNAV (GPS) Rwy 7<sup>2</sup>**  
**RNAV (GPS) Rwy 18<sup>3</sup>**  
**RNAV (GPS) Rwy 25<sup>4</sup>**  
**RNAV (GPS) Rwy 36<sup>3</sup>**

<sup>1</sup>LOC, Category A, 1100-2; Category B, 1200-2;  
Category C, 1300-3; Category D, 1500-3.<sup>2</sup>Category A, 1100-2; Category B, 1200-2;

Category C, 1300-3; Category D, 1500-3.

<sup>3</sup>Categories A, B, 1200-2; Category C, 1300-3;  
Category D, 1500-3.<sup>4</sup>Category C, 1300-3; Category D, 1500-3.**LYNDONVILLE, VT**

CALEDONIA  
COUNTY (CDA).....**RNAV (GPS) Rwy 2**  
NA when local weather not available.  
Categories A, B, 900-2.

**MANCHESTER, NH**

MANCHESTER BOSTON  
RGNL (MHT).....**ILS or LOC Rwy 6<sup>1</sup>**  
**ILS or LOC Rwy 17<sup>1</sup>**  
**ILS or LOC Rwy 35<sup>1</sup>**  
**RNAV (GPS) Rwy 6<sup>3</sup>**  
**RNAV (GPS) Y Rwy 17<sup>3</sup>**  
**RNAV (GPS) Y Rwy 35<sup>23</sup>**

<sup>1</sup>LOC, Category D, 900-2½.<sup>2</sup>NA when local weather not available.<sup>3</sup>Category D, 900-2½.**MARSHFIELD, MA**

MARSHFIELD MUNI-GEORGE HARLOW  
FLD (GHG).....**RNAV (GPS) Rwy 6**  
**RNAV (GPS) Rwy 24**

NA when local weather not available.

Category B, 900-2.

**MERIDEN, CT**

MERIDEN MARKHAM  
MUNI (MMK).....**RNAV (GPS) Rwy 36<sup>1</sup>**  
**VOR Rwy 36<sup>2</sup>**

<sup>1</sup>NA when local weather not available.<sup>2</sup>Categories A, B, 1000-2.**NAME ALTERNATE MINIMUMS****MILLINOCKET, ME**

MILLINOCKET  
MUNI (MLT).....**RNAV (GPS) Rwy 11<sup>12</sup>**  
**RNAV (GPS) Rwy 29<sup>13</sup>**  
**VOR Rwy 29<sup>13</sup>**

<sup>1</sup>NA when local weather not available.<sup>2</sup>Category D, 800-2½.<sup>3</sup>Category D, 1000-3.**MORRISVILLE, VT**

MORRISVILLE-STOWE  
STATE (MVL).....**RNAV (GPS) Y Rwy 19<sup>1</sup>**  
**RNAV (GPS) Z Rwy 19<sup>2</sup>**  
**RNAV (GPS)-A<sup>3</sup>**

NA when local weather not available.

<sup>1</sup>Categories A, B, 1500-2; Category C, 1500-3.<sup>2</sup>Categories A, B, 1100-2; Category C, 1300-3.<sup>3</sup>Category A, 900-2; Category B, 1100-2;  
Category C, 1300-3.**NANTUCKET, MA**

NANTUCKET  
MEML (ACK).....**ILS or LOC Rwy 6<sup>12</sup>**  
**ILS or LOC Rwy 24<sup>12</sup>**  
**RNAV (GPS) Rwy 6<sup>3</sup>**  
**RNAV (GPS) Rwy 15**  
**RNAV (GPS) Rwy 24<sup>3</sup>**  
**RNAV (GPS) Rwy 33<sup>4</sup>**  
**VOR Rwy 24<sup>3</sup>**

NA when local weather not available.

<sup>1</sup>NA when control tower closed.<sup>2</sup>ILS, Category C, 700-2; Category D, 700-2½;

LOC, Category D, 800-2½.

<sup>3</sup>Category D, 800-2½.<sup>4</sup>Category D, 1000-3.**NASHUA, NH**

BOIRE FLD (ASH).....**ILS or LOC Rwy 14<sup>12</sup>**  
**RNAV (GPS) Rwy 14<sup>3</sup>**  
**RNAV (GPS) Rwy 32<sup>2</sup>**

NA when local weather not available.

<sup>1</sup>NA when control tower closed.<sup>2</sup>LOC, Category D, 800-2½.<sup>3</sup>Category D, 800-2½.**NEW BEDFORD, MA**

NEW BEDFORD  
RGNL (EWB).....**ILS or LOC Rwy 5<sup>13</sup>**  
**LOC BC Rwy 23<sup>2</sup>**  
**RNAV (GPS) Rwy 23<sup>2</sup>**  
**RNAV (GPS) Rwy 23<sup>2</sup>**  
**RNAV (GPS) Rwy 14**  
**RNAV (GPS) Rwy 32<sup>4</sup>**

NA when local weather not available.

<sup>1</sup>NA when control tower closed.<sup>2</sup>Category D, 900-2½.<sup>3</sup>ILS, Categories A, B, C, 700-2; Category D,  
900-2½; LOC, Category D, 900-2½.<sup>4</sup>Categories A, B, 900-2; Categories C, D, 900-2½.

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**NEW HAVEN, CT**

TWEED/NEW HAVEN (HVN).....**ILS or LOC Rwy 2<sup>12</sup>**  
**RNAV (GPS) Rwy 2<sup>3</sup>**  
**RNAV (GPS) Rwy 20**

NA when local weather not available.

<sup>1</sup>NA when control tower closed.

<sup>2</sup>LOC, Category C, 800-2¼; Category D, 900-2¾.

<sup>3</sup>Category C, 800-2¼; Category D, 900-2¾.

**NEWPORT, RI**

NEWPORT STATE (UUU).....**RNAV (GPS) Rwy 16**  
**VOR Rwy 16**

NA when local weather not available.

**NEWPORT, VT**

NORTHEAST KINGDOM INTL (EFK).....**RNAV (GPS) Rwy 36**  
NA when local weather not available.  
Category C, 1100-3.

**NORTH ADAMS, MA**

HARRIMAN-AND-WEST (AQW).....**RNAV (GPS)-A<sup>1</sup>**  
**RNAV (GPS)-B<sup>2</sup>**

<sup>1</sup>Categories A, B, 2100-2; Category C, 2200-3.

<sup>2</sup>Category B, 2700-2; Category C, 2700-3.

**NORTH KINGSTOWN, RI**

QUONSET STATE (OQU).....**ILS or LOC Rwy 16<sup>12</sup>**  
**RNAV (GPS) Rwy 16<sup>3</sup>**  
**RNAV (GPS) Rwy 34<sup>3</sup>**  
**VOR-A<sup>3</sup>**

<sup>1</sup>NA when control tower closed.

<sup>2</sup>ILS, LOC, Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.

<sup>3</sup>Category D, 900-2¾.

**NORWOOD, MA**

NORWOOD MEML (OWD).....**LOC Rwy 35**  
**RNAV (GPS) Rwy 35**

Categories C, D, 1200-3.

**ORANGE, MA**

ORANGE MUNI (ORE).....**RNAV (GPS) Rwy 32**  
**VOR-A<sup>1</sup>**

NA when local weather not available.

<sup>1</sup>Categories A, B, 1000-2; Category C, 1100-3; Category D, 1200-3.

**OXFORD, CT**

WATERBURY- OXFORD (OXC).....**RNAV (GPS) Rwy 18**  
**RNAV (GPS) Rwy 36**

Category D, 800-2¼.

NAME ALTERNATE MINIMUMS

**PAWTUCKET, RI**

NORTH CENTRAL STATE (SFZ).....**RNAV (GPS) Rwy 5**  
**RNAV (GPS) Rwy 23**  
**VOR-A**  
**VOR-B**

NA when local weather not available.

**PITTSFIELD, MA**

PITTSFIELD MUNI (PSF).....**LOC Rwy 26<sup>1</sup>**  
**RNAV (GPS) Rwy 8<sup>23</sup>**  
**RNAV (GPS) Rwy 26<sup>4</sup>**

<sup>1</sup>Category B, 1000-2; Category C, 1300-3; Category D, 1500-3.

<sup>2</sup>NA when local weather not available.

<sup>3</sup>Categories A, B, 900-3; Category C, 1300-3; Category D, 1500-3.

<sup>4</sup>Categories A, B, 1100-2; Category C, 1300-3; Category D, 1500-3.

**PLYMOUTH, MA**

PLYMOUTH MUNI (PYM).....**ILS or LOC Rwy 6**  
**RNAV (GPS) Rwy 33**

NA when local weather not available.

**PORTLAND, ME**

PORTLAND INTL JETPORT (PWM).....**ILS or LOC Rwy 11<sup>15</sup>**  
**ILS or LOC Rwy 29<sup>13</sup>**  
**RNAV (GPS) Rwy 11<sup>4</sup>**  
**RNAV (GPS) Rwy 18<sup>4</sup>**  
**RNAV (GPS) Rwy 29<sup>4</sup>**  
**RNAV (GPS) Rwy 36<sup>24</sup>**

<sup>1</sup>NA when approach control closed.

<sup>2</sup>NA when local weather not available.

<sup>3</sup>ILS, Category C, 700-2; Category D, 800-2½. LOC, Category D, 800-2½.

<sup>4</sup>Category D, 800-2½.

<sup>5</sup>ILS, Categories A, B, C, 700-2; Category D, 800-2½. LOC, Category D, 800-2½.

**PORTSMOUTH, NH**

PORTSMOUTH INTL AT PEASE (PSM).....**ILS or LOC Rwy 16<sup>12</sup>**  
**ILS or LOC Rwy 34<sup>2</sup>**  
**RNAV (GPS) Rwy 16<sup>13</sup>**  
**RNAV (GPS) Rwy 34<sup>13</sup>**

<sup>1</sup>NA when local weather not available.

<sup>2</sup>LOC, Category D, 800-2¼; Category E, 800-2½.

<sup>3</sup>Category D, 800-2¼; Category E, 800-2½.

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**PRESQUE ISLE, ME**

PRESQUE ISLE  
INTL (PQI)..... ILS or LOC Rwy 1<sup>12</sup>  
RNAV (GPS) Rwy 1<sup>3</sup>  
RNAV (GPS) Rwy 19<sup>3</sup>  
RNAV (GPS) Rwy 28<sup>3</sup>  
VOR Rwy 19<sup>3</sup>

<sup>1</sup>NA when local weather not available.  
<sup>2</sup>LOC, Category C, 800-2¼; Category D, 900-2¾.  
<sup>3</sup>Category C, 800-2¼; Category D, 900-2¾.

**PROVIDENCE, RI**

RHODE ISLAND TF GREEN  
INTL (PVD)..... ILS or LOC Rwy 5<sup>1</sup>  
ILS or LOC Rwy 23<sup>2</sup>  
ILS or LOC Rwy 34<sup>13</sup>  
RNAV (GPS) Rwy 5<sup>4</sup>  
RNAV (GPS) Rwy 16<sup>4</sup>  
RNAV (GPS) Rwy 34<sup>4</sup>  
RNAV (GPS) Y Rwy 23<sup>4</sup>  
VOR Rwy 5<sup>4</sup>  
VOR/DME Rwy 16<sup>4</sup>  
VOR/DME Rwy 23<sup>4</sup>  
VOR Y Rwy 34<sup>4</sup>  
VOR Z Rwy 34<sup>4</sup>

<sup>1</sup>ILS, LOC, Category D, 900-2½.  
<sup>2</sup>LOC, Category D, 900-2½.  
<sup>3</sup>NA when control tower closed.  
<sup>4</sup>Category D, 900-2½.

**PROVINCETOWN, MA**

PROVINCETOWN  
MUNI (PVC)..... NDB Rwy 25  
RNAV (GPS) RWY 7  
RNAV (GPS) RWY 25  
NA when local weather not available.

**RANGELEY, ME**

STEPHEN A BEAN  
MUNI (8B0)..... RNAV (GPS)-D  
NA when local weather not available.

**ROCHESTER, NH**

SKYHAVEN (DAW)..... NDB Rwy 33  
RNAV (GPS) Rwy 33  
NA when local weather not available.

**ROCKLAND, ME**

KNOX COUNTY  
RGNL (RKD)..... ILS or LOC Rwy 13<sup>12</sup>  
RNAV (GPS) Rwy 3<sup>3</sup>  
RNAV (GPS) Rwy 13<sup>3</sup>  
RNAV (GPS) Rwy 31<sup>13</sup>

<sup>1</sup>NA when local weather not available.  
<sup>2</sup>ILS, Category C, 700-2; Category D, 1100-3;  
LOC, Category D, 1100-3.  
<sup>3</sup>Category D, 1100-3.

NAME ALTERNATE MINIMUMS

**RUTLAND, VT**

RUTLAND - SOUTHERN VERMONT  
RGNL (RUT)..... ILS Y or LOC Y Rwy 19<sup>1</sup>  
ILS Z or LOC Z Rwy 19<sup>2</sup>  
RNAV (GPS) Rwy 1<sup>34</sup>  
RNAV (GPS) Y Rwy 19<sup>5</sup>  
RNAV (GPS) Z Rwy 19<sup>5</sup>

<sup>1</sup>ILS, Categories A, B, C, D, 1400-5;  
LOC, Categories A, B, 1400-2; Category C,  
1800-3; Category D, 2000-3.  
<sup>2</sup>ILS, Categories A, B, C, D, 700-2;  
LOC, Categories A, B, 1400-2; Category C,  
1800-3; Category D, 2000-3.  
<sup>3</sup>NA when local weather not available  
<sup>4</sup>Categories A, B, 2400-2; Categories C, D, 2400-3.  
<sup>5</sup>Categories A, B, C, 1800-5.

**SANFORD, ME**

SANFORD SEACOAST  
RGNL (SFM)..... RNAV (GPS) Rwy 7  
RNAV (GPS) Rwy 25  
RNAV (GPS) Rwy 32  
VOR Rwy 25

NA when local weather not available.  
Category C, 1000-2¾; Category D, 1000-3.

**SPRINGFIELD, VT**

HARTNESS STATE  
(SPRINGFIELD) (VSF)..... RNAV (GPS) Rwy 5  
Categories A, B, 1300-2; Categories C, D, 2100-3.  
NA when local weather not available.

**TAUNTON, MA**

TAUNTON MUNI - KING  
FLD (TAN)..... RNAV (GPS) Rwy 12  
NA when local weather not available.  
Category D, 800-2¼.

**VINEYARD HAVEN, MA**

MARTHA'S  
VINEYARD (MVY)..... ILS or LOC Rwy 24<sup>1</sup>  
RNAV (GPS) Rwy 6<sup>2</sup>  
RNAV (GPS) Rwy 15<sup>23</sup>  
RNAV (GPS) Rwy 24<sup>23</sup>  
RNAV (GPS) Rwy 33<sup>2</sup>  
VOR Rwy 6<sup>2</sup>

<sup>1</sup>ILS, LOC, Category D, 800-2¼.  
<sup>2</sup>NA when local weather not available.  
<sup>3</sup>Category D, 800-2¼.

**WATERVILLE, ME**

WATERVILLE ROBERT  
LAFLEUR (WVL)..... ILS or LOC/DME Rwy 5<sup>1</sup>  
RNAV (GPS) Rwy 5<sup>2</sup>  
RNAV (GPS) Rwy 23<sup>2</sup>

NA when local weather not available.  
<sup>1</sup>LOC, Category C, 800-2¼; Category D, 800-2½.  
<sup>2</sup>Category C, 800-2¼; Category D, 800-2½.

NAME ALTERNATE MINIMUMS

**WESTFIELD/SPRINGFIELD, MA**

WESTFIELD-

BARNES RGNL (BAF).....**ILS or LOC Rwy 20<sup>12</sup>**  
**RNAV (GPS) Rwy 2<sup>3</sup>**  
**RNAV (GPS) Rwy 20<sup>4</sup>**  
**VOR or TACAN Rwy 2<sup>4</sup>**  
**VOR Rwy 20<sup>4</sup>**

NA when local weather not available.

<sup>1</sup>NA when tower closed.

<sup>2</sup>LOC, Categories, A, B, 1000-2;

Category C, 1000-3; Categories D, E, 1400-3.

<sup>3</sup>Categories A, B, 1100-2; Category C, 1100-3;

Categories D, E, 1400-3.

<sup>4</sup>Categories A, B, 900-2; Category C, 900-2½;  
Categories D, E, 1400-3.

**WHITEFIELD, NH**

MOUNT WASHINGTON

RGNL (HIE).....**RNAV (GPS) Y Rwy 10<sup>1</sup>**  
**RNAV (GPS) Z Rwy 10**

NA when local weather not available.

<sup>1</sup>Categories A, B, 900-2; Category C, 900-2½.

**WILLIMANTIC, CT**

WINDHAM (IJD).....**RNAV (GPS) Rwy 9<sup>1</sup>**  
**RNAV (GPS) Rwy 27<sup>1</sup>**  
**VOR-A**

Category C, 900-2½.

<sup>1</sup>NA when local weather not available.

**WINDSOR LOCKS, CT**

BRADLEY

INTL (BDL).....**ILS or LOC Rwy 6<sup>1</sup>**  
**ILS or LOC Rwy 24<sup>2</sup>**  
**ILS or LOC Rwy 33<sup>2</sup>**  
**RNAV (GPS) Rwy 15<sup>3</sup>**  
**RNAV (GPS) Rwy 33<sup>4</sup>**  
**RNAV (GPS) Y Rwy 6<sup>4</sup>**  
**RNAV (GPS) Y Rwy 24<sup>4</sup>**

<sup>1</sup>ILS, LOC, Categories A, B, 1000-2; Category C,  
1000-3; Category D, 1100-3.

<sup>2</sup>LOC, Category C, 1000-2½; Category D, 1100-3.

<sup>3</sup>Categories A, B, 900-2½; Category C, 1000-2½.

<sup>4</sup>Category C, 1000-2½; Category D, 1100-3.

**WISCASSET, ME**

WISCASSET (IWI).....**RNAV (GPS) Rwy 7**  
**RNAV (GPS) Rwy 25**

NA when local weather not available.

NAME ALTERNATE MINIMUMS

**WORCESTER, MA**

WORCESTER

RGNL (ORH).....**ILS or LOC Rwy 11<sup>23</sup>**  
**ILS or LOC Rwy 29<sup>24</sup>**  
**RNAV (GPS) Rwy 11<sup>5</sup>**  
**RNAV (GPS) Rwy 29<sup>5</sup>**  
**RNAV (GPS) Rwy 33<sup>15</sup>**  
**VOR/DME Rwy 33<sup>15</sup>**

<sup>1</sup>NA when local weather not available.

<sup>2</sup>NA when control tower closed.

<sup>3</sup>ILS, Category B, 800-2; Categories C, D, 1000-3;

LOC, Categories C, D, 1000-3.

<sup>4</sup>LOC, Categories C, D, 1000-3.

<sup>5</sup>Categories C, D, 1000-3.

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

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INSTRUMENT APPROACH PROCEDURE CHARTS



## IFR TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

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

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

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

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

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

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard takeoff rules and establishes takeoff minimums for certain operators as follows: (1) For aircraft, other than helicopters, having two engines or less – one statute mile visibility. (2) For aircraft having more than two engines – one-half statute mile visibility. (3) For helicopters – one-half statute mile visibility. These standard minima apply in the absence of any different minima listed below.

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

### AUBURN/LEWISTON, ME

#### AUBURN/LEWISTON MUNI (LEW)

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

AMDT 5A 06DEC18 (18340) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 17**, 500- 2¼ or std. w/min. climb of 266 feet per NM to 900.

**Rwy 22**, std. w/min. climb of 312 feet per NM to 1500, or 1200-2½ for climb in visual conditions.

##### DEPARTURE PROCEDURE:

**Rwy 17**, climb on heading 165° to 900 before turning northeast.

**Rwy 22**, climb to 1500 direct LE LOM. Cross LE LOM at or above 1500 before turning southwest.

##### VCOA:

Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Auburn/Lewiston Muni at or above 1500 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 4**, multiple trees beginning 297' from DER, 78' right of centerline, up to 90' AGL/386' MSL.

Multiple trees beginning 331' from DER, 277' left of centerline, up to 86' AGL/323' MSL.

Abandoned aircraft 73' from DER, 478' right of centerline, 19' AGL/289' MSL.

Abandoned aircraft 36' from DER, 451' right of centerline, 18' AGL/288' MSL.

Pole 1487' from DER, 348' right of centerline, 51' AGL/314' MSL.

Pole 101' from DER, 387' left of centerline, 37' AGL/277' MSL.

Fence 132' from DER, 306' right of centerline, 11' AGL/267' MSL.

**Rwy 17**, tree 1209' from DER, 390' right of centerline, 72' AGL/364' MSL.

Tree 909' from DER, 336' right of centerline, 51' AGL/350' MSL.

Tree 1819' from DER, 169' left of centerline, 92' AGL/371' MSL.

Tree 1053' from DER, 252' left of centerline, 60' AGL/336' MSL.

Tree 575' from DER, 175' left of centerline, 39' AGL/322' MSL.

Tree 881' from DER, 110' right of centerline, 35' AGL/327' MSL.

Terrain 159' from DER, 487' right of centerline, 0' AGL/302' MSL.

Tree 1.9 NM from DER, 247' left of centerline, 129' AGL/576' MSL.

Terrain 276' from DER, 302' right of centerline, 0' AGL/299' MSL.

Road 531' from DER, 156' left of centerline, 0' AGL/305' MSL.

Terrain 533' from DER, 463' right of centerline, 0' AGL/302' MSL.

Terrain 18' from DER, 140' right of centerline, 0' AGL/289' MSL.

Tower 1.7 NM from DER, 4211' left of centerline, 193' AGL/752' MSL.

CON'T

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

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## AUBURN/LEWISTON, ME (CON'T)

### AUBURN/LEWISTON MUNI (CON'T)

**Rwy 22**, tree 4322' from DER, 1403' right of centerline, 87' AGL/439' MSL.

Tree 4970' from DER, 616' left of centerline, 62' AGL/414' MSL.

Tree 5547' from DER, 633' right of centerline, 86' AGL/428' MSL.

Tree 5242' from DER, 1108' right of centerline, 51' AGL/419' MSL.

Tree 3040' from DER, 993' right of centerline, 74' AGL/363' MSL.

Ground 4784' from DER, 88' right of centerline, 0' AGL/404' MSL.

Ground 3902' from DER, 811' right of centerline, 0' AGL/375' MSL.

Tree 3189' from DER, 500' right of centerline, 73' AGL/352' MSL.

**Rwy 35**, tree 1877' from DER, 357' left of centerline, 104' AGL/344' MSL.

Tree 870' from DER, 380' right of centerline, 72' AGL/312' MSL.

Tree 1146' from DER, 378' left of centerline, 77' AGL/317' MSL.

Tree 1520' from DER, 170' right of centerline, 62' AGL/302' MSL.

## AUGUSTA, ME

### AUGUSTA STATE (AUG)

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

AMDT 4 21MAY20 (20142) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 8**, 300-1½ or std. w/min. climb of 273' per NM to 600.

**Rwy 17**, 300-1½ or std. w/min. climb of 290' per NM to 600.

**Rwy 26**, 400-1½ or std. w/min. climb of 313' per NM to 800.

##### DEPARTURE PROCEDURE:

**Rwy 26**, climb on heading 260° to 800 before turning right.

**Rwy 35**, climb on heading 351° to 1000 before turning left.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 8**, trees, fence, pole beginning 25' from DER, 48' right of centerline, up to 100' AGL/445' MSL.

Tree 117' from DER, 322' left of centerline, 100' AGL/442' MSL.

Trees beginning 310' from DER, 15' left of centerline, up to 100' AGL/445' MSL.

Tower 5173' from DER, 1865' left of centerline, 156' AGL/527' MSL.

**Rwy 17**, tree 102' from DER, 289' right of centerline, 30' AGL/351' MSL.

Poles, vehicle on road, building beginning 107' from DER, 250' left of centerline, up to 31' AGL/376' MSL.

Pole 594' from DER, 355' left of centerline, 42' AGL/387' MSL.

Tree 707' from DER, 599' left of centerline, 66' AGL/413' MSL.

**Rwy 26**, trees beginning 10' from DER, 16' right of centerline, up to 100' AGL/442' MSL.

Trees beginning 152' from DER, 13' left of centerline, up to 100' AGL/442' MSL.

Trees beginning 2071' from DER, 47' left of centerline, up to 100' AGL/445' MSL.

Towers, trees beginning 5728' from DER, 19' right of centerline, up to 186' AGL/573' MSL.

Trees beginning 1 NM from DER, 19' left of centerline, up to 100' AGL/511' MSL.

Trees beginning 1 NM from DER, 185' left of centerline, up to 100' AGL/530' MSL.

Trees beginning 1.1 NM from DER, 83' left of centerline, up to 100' AGL/540' MSL.

Trees beginning 1.2 NM from DER, 44' left of centerline, up to 100' AGL/543' MSL.

Trees beginning 1.4 NM from DER, 838' right of centerline, up to 100' AGL/583' MSL.

Tree 1.4 NM from DER, 569' right of centerline, 100' AGL/593' MSL.

Tower, trees beginning 1.4 NM from DER, 135' right of centerline, up to 180' AGL/665' MSL.

Tower 1.5 NM from DER, 1403' right of centerline, 199' AGL/658' MSL.

## BANGOR, ME

### BANGOR INTL (BGR)

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

AMDT 3 27APR17 (17117) (FAA)

##### TAKEOFF OBSTACLE NOTES:

**Rwy 15**, tree 1694' from DER, 868' left of centerline, 56' AGL/215' MSL.

Trees beginning 2436' from DER, 1116' left of centerline, up to 89' AGL/271' MSL.

Tree 3958' from DER, 1371' left of centerline, 87' AGL/278' MSL.

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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND  
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**BAR HARBOR, ME**

**HANCOCK COUNTY/BAR HARBOR (BHB)**

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

AMDT 4A 07MAR13 (21336) (FAA)

**DEPARTURE PROCEDURE:**

- Rwy 17**, climbing right turn via heading 220° to 2100 before proceeding on course.  
**Rwy 22**, climb via heading 224° to 1100 before proceeding east or southeast bound.  
**Rwy 35**, climb via heading 349° to 600 before proceeding on course.

**TAKEOFF OBSTACLE NOTES:**

- Rwy 4**, road 324' from DER, 524' left of centerline, 15' AGL/79' MSL.  
 Multiple trees beginning 119' from DER, 231' right of centerline, up to 60' AGL/193' MSL.  
**Rwy 17**, bush 116' from DER, 164' left of centerline, 10' AGL/47' MSL.  
 Tree 245' from DER, 346' right of centerline, 44' AGL/82' MSL.  
**Rwy 22**, multiple poles and trees beginning 562' from DER, 329' left of centerline, up to 60' AGL/135' MSL.  
 Terrain, multiple poles and trees beginning 450' left of DER, up to 60' AGL/142' MSL.  
 Power lines beginning 626' from DER, 359' right of centerline, 35' AGL/103' MSL.  
**Rwy 35**, terrain and multiple trees beginning 35' from DER, 340' left of centerline, up to 60' AGL/217' MSL.  
 Glideslope antenna and multiple trees beginning 657' from DER, 565' right of centerline up to 60' AGL/146' MSL.

**BARRE-MONTPELIER, VT**

**EDWARD F. KNAPP STATE (MPV)**

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

AMDT 5 13NOV14 (14317) (FAA)

**TAKEOFF MINIMUMS:**

- Rwy 17**, 500-2 w/min. climb of 270' per NM to 2700 or 1900-3 for climb in visual conditions.  
**Rwy 23**, 1900-3 for climb in visual conditions.

**DEPARTURE PROCEDURE:**

- Rwy 5**, climb heading 048° to 2100 then climbing left turn to 3900 direct MPV VOR/DME before proceeding on course.  
**Rwy 17**, climb heading 168° to 2600 then climbing left turn to 3500 direct MPVVOR/DME before proceeding on course.  
**Rwy 35**, climbing right turn to 3900 direct MPV VOR/DME before proceeding on course.  
**Rwys 17, 23**, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Edward F Knapp state airport at or above 2900' MSL.

**TAKEOFF OBSTACLE NOTES:**

- Rwy 5**, vehicles on road beginning 0.69' from DER, crossing centerline, up to 15' AGL/1133' MSL.  
 Terrain 104' from DER, 253' left of centerline, up to 1089' MSL.  
 Trees beginning 347' from DER, crossing centerline, up to 100' AGL/1199' MSL.  
**Rwy 17**, tower 80' from DER, 368' right of centerline, up to 41' AGL/1223' MSL.  
 Trees beginning 139' from DER, 409' right of centerline, up to 100' AGL/1243' MSL.  
 Navaid 141' from DER, up to 5' AGL/1171' MSL.  
 Navaid 199' from DER, up to 7' AGL/1172' MSL.  
 Pole 257' from DER, 165' left of centerline, up to 27' AGL/1178' MSL.  
 Trees 297' from DER, crossing centerline, up to 100' AGL/1193' MSL.  
 Trees 667' from DER, crossing centerline, up to 100' AGL/1259' MSL.  
 Building 1318' from DER, 254' left of centerline, up to 43' AGL/1221' MSL.  
 Tower 1318' from DER, 669' left of centerline, up to 38' AGL/1208' MSL.  
 Trees 1498' from DER, crossing centerline, up to 100' AGL/1309' MSL.  
 Pole 1703' from DER, 41' right of centerline, up to 33' AGL/1243' MSL.  
 Trees 1898' from DER, 726' right of centerline, up to 100' AGL/1387' MSL.  
 Pole 1970' from DER, 539' right of centerline, up to 27' AGL/1334' MSL.  
 Trees 2088' from DER, crossing centerline, up to 100' AGL/1384' MSL.  
 Trees 4872' from DER, crossing centerline, up to 100' AGL/1579' MSL.  
**Rwy 23**, poles beginning 2' from DER, 335' left of centerline, up to 39' AGL/1167' MSL.  
 Fence 49' from DER, 276' left of centerline, up to 7' AGL/1127' MSL.  
 Tower 561' from DER, 573' left of centerline, up to 88' AGL/1215' MSL.  
 Building 603' from DER, 426' left of centerline, up to 37' AGL/1159' MSL.  
 Tower 615' from DER, 580' left of centerline, up to 68' AGL/1195' MSL.  
 Rod 615' from DER, 580' left of centerline, up to 60' AGL/1195' MSL.  
 Trees beginning 1263' from DER, crossing centerline, up to 100' AGL/1183' MSL.  
 Pole 2801' from DER, 702' left of centerline, up to 27' AGL/1202' MSL.  
 Pole 2867' from DER, 152' right of centerline, up to 55' AGL/1233' MSL.  
 Trees 2880' from DER, crossing centerline, up to 100' AGL/1243' MSL.  
 Tower 3010' from DER, 404' right of centerline, up to 36' AGL/1221' MSL.  
 Trees 3299' from DER, crossing centerline, up to 100' AGL/1275' MSL.  
 Trees 4491' from DER, crossing centerline, up to 100' AGL/1389' MSL.  
 Trees 4944' from DER, crossing centerline, up to 100' AGL/1459' MSL.  
 Trees 6298' from DER, crossing centerline, up to 100' AGL/1499' MSL.  
 Trees 7273' from DER, crossing centerline, up to 100' AGL/1559' MSL.  
**Rwy 35**, bush 74' from DER, 288' left of centerline, up to 10' AGL/1097' MSL.  
 Building 81' from DER, 488' right of centerline, up to 6' AGL/1094' MSL.  
 Trees beginning 411' from DER, crossing centerline, up to 100' AGL/1132' MSL.

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## BEDFORD, MA

LAURENCE G HANSCOM FLD (BED)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 27JUN13 (21112) (FAA)

TAKEOFF MINIMUMS:

**Rwy 11**, 300-1¼ or std. w/min. climb of 251' per NM to 400, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 2100' prior to DER.

**Rwy 23**, 300-2 or std. w/min. climb of 426' per NM to 500.

TAKEOFF OBSTACLE NOTES:

**Rwy 5**, trees, fence, bush, and vegetation beginning 44' from DER, 84' left and 113' right of centerline, up to 39' AGL/171' MSL.

Trees and poles beginning 1153' from DER, 11' left and 117' right of centerline, up to 71' AGL/221' MSL.

Trees beginning 2528' from DER, 9' left and 2' right of centerline, up to 91' AGL/235' MSL.

**Rwy 11**, sign 81' from DER, 237' right of centerline, 14' AGL/126' MSL.

Trees beginning 1431' from DER, 684' right of centerline, up to 53' AGL/181' MSL.

Trees beginning 1875' from DER, 99' left and 457' right of centerline, up to 73' AGL/231' MSL.

Tower 5028' from DER, 1681' left of centerline, 155' AGL/285' MSL.

**Rwy 23**, sign 2' from DER, 303' right of centerline, 6' AGL/133' MSL.

Vehicle on road 534' from DER, from 293' right to 3' right of centerline, up to 15' AGL/167' MSL.

Building 614' from DER, 620' left of centerline, 23' AGL/151' MSL.

Trees, terrain, and pole beginning 855' from DER, 379' left and 337' right of centerline, up to 38' AGL/180' MSL.

Trees beginning 1090' from DER, 558' left and 263' right of centerline, up to 48' AGL/232' MSL.

Trees and building beginning 1588' from DER, 88' left and 138' right of centerline, up to 95' AGL/259' MSL.

Trees beginning 2149' from DER, 524' left and 213' right of centerline, up to 100' AGL/286' MSL.

Trees, buildings, and tower beginning 3721' from DER, 48' left and 4' right of centerline, up to 100' AGL/379' MSL.

**Rwy 29**, sign 13' from DER, 273' right of centerline, 24' AGL/135' MSL.

Tree 391' from DER, 487' left of centerline, 20' AGL/153' MSL.

Poles and trees beginning 1109' from DER, 734' left and 49' right of centerline, up to 106' AGL/243' MSL.

Trees beginning 3007' from DER, 6' left and 49' right of centerline, up to 100' AGL/243' MSL.

## BELFAST, ME

BELFAST MUNI (BST)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 10MAY07 (07130) (FAA)

TAKEOFF MINIMUMS:

**Rwy 33**, 300-1¼ or std. with a min. climb of 219' per NM to 600.

DEPARTURE PROCEDURE:

**Rwy 15**, climb heading 136° to 900 before turning south.

TAKEOFF OBSTACLE NOTES:

**Rwy 33**, light pole 1955' from DER, 510' left of centerline, 100' AGL/297' MSL.

Multiple trees beginning 1.4 NM from DER, 1682' left of centerline, up to 80' AGL/429' MSL.

## BENNINGTON, VT

WILLIAM H. MORSE STATE (DDH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 31MAY12 (12152) (FAA)

TAKEOFF MINIMUMS:

**Rwy 13**, std. w/min. climb of 645' per NM to 4000 or 2600-3 for climb in visual conditions.

**Rwy 31**, 400-1 w/min. climb of 300' per NM to 4200 or 2600-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

**Rwy 13**, climbing left turn direct CAM VOR/DME, continue climb-in-hold (North, right turns, 160° inbound) to 4400 before proceeding on course or...

**Rwy 31**, climbing right turn direct CAM VOR/DME, continue climb-in-hold (North, right turns, 160° inbound) to 4400 before proceeding on course or...

... For climb in visual conditions: cross William H. Morse State Airport at or above 3300 before proceeding on course. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES:

**Rwy 13**, rising terrain beginning 100' from DER, right to left of centerline, up to 868' MSL.

Poles beginning 195' from DER, 229' right of centerline, up to 30' AGL/858' MSL.

Trees beginning 358' from DER, left and right of centerline, up to 95' AGL/1279' MSL.

**Rwy 31**, multiple trees beginning 116' from DER, right and left of centerline, up to 95' AGL/1139' MSL.

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## BERLIN, NH

BERLIN RGNL (BML)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 21MAY20 (20142) (FAA)

TAKEOFF MINIMUMS:

**Rwy 18**, 300-1 or std. w/min. climb of 450' per NM to 1500 or 3300-3 for climb in visual conditions.**Rwy 36**, std. w/min. climb of 491' per NM to 2400 or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

**Rwy 18**, climbing on heading 175° to 1500 before proceeding on course.**Rwy 36**, climbing on heading 355° to 2400 before proceeding on course.

VCOA:

**Rwys 18, 36**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Berlin RGNL Airport at or above 4300 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

**Rwy 18**, trees beginning 19' from DER, 190' right of centerline, up to 91' AGL/1191' MSL.

Trees and utility lines beginning 44' from DER, 361' left of centerline, up to 28' AGL/1156' MSL.

Trees beginning 732' from DER, left to right of centerline up to 78' AGL/1196' MSL.

Trees beginning 1987' from DER, left to right of centerline, up to 86' AGL/1237' MSL.

Trees beginning 3061' from DER, left to right of centerline up to 100' AGL/1256' MSL.

Trees beginning 3778' from DER, left to right of centerline, up to 58' AGL/1281' MSL.

Trees and tower beginning 4380' from DER, 381' right of centerline, up to 59' AGL/1379' MSL.

Trees beginning 4632' from DER, left to right of centerline, up to 114' AGL/1393' MSL.

**Rwy 36**, trees and vegetation beginning 9' from DER, 153' left of centerline, up to 54' AGL/1212' MSL.

Trees beginning 27' from DER, 203' right of centerline, up to 73' AGL/1209' MSL.

Trees beginning 819' from DER left to right of centerline, up to 76' AGL/1196' MSL.

Trees 1169' from DER, 350' left of centerline, up to 80' AGL/1124' MSL.

Trees beginning 2350' from DER, 436' right of centerline, up to 80' AGL/1298 MSL.

Trees beginning 1.6 NM from DER, 1451' right of centerline, up to 91' AGL/1457' MSL.

Trees beginning 2.3 NM from DER, 4104' right of centerline, up to 87' AGL/1600' MSL.

## BETHEL, ME

BETHEL RGNL (0B1)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 20JUN19 (19171) (FAA)

TAKEOFF MINIMUMS:

**Rwy 14**, std. w/min. climb of 405' per NM to 3700 or 3400-3 for climb in visual conditions.**Rwy 32**, 3400-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

**Rwy 14**, climb heading 143° to 3000 before proceeding on course.

VCOA:

Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Bethel Rgnl airport at or above 3900 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 14, trees beginning 1' from DER, 264' left of centerline, up to 676' MSL.

Building 23' from DER, 367' right of centerline, 26' AGL/671' MSL.

Transmission line and pole beginning 180' from DER, 513' right of centerline, up to 48' AGL/690' MSL.

Trees beginning 202' from DER, 283' left of centerline, up to 731' MSL.

Tree 292' from DER, 527' right of centerline, 766' MSL.

Trees beginning 419' from DER, 18' right of centerline, up to 769' MSL.

Tree 556' from DER, 538' left of centerline, 733' MSL.

Trees beginning 717' from DER, 252' left of centerline, up to 736' MSL.

Tree 1194' from DER, 729' left of centerline, 743' MSL.

Tree 1273' from DER, 519' left of centerline, 744' MSL.

Trees and building beginning 1322' from DER, 10' left of centerline, up to 765' MSL.

Tree 1.2 NM from DER, 2402' right of centerline, 860' MSL.

Tree 1.3 NM from DER, 2738' right of centerline, 869' MSL.

Tree 1.4 NM from DER, 2309' right of centerline, 871' MSL.

Tree 1.4 NM from DER, 2421' right of centerline, 877' MSL.

Trees beginning 1.4 NM from DER, 2440' right of centerline, up to 882' MSL.

Tree 1.4 NM from DER, 2657' right of centerline, 885' MSL.

Tree 1.4 NM from DER, 2497' right of centerline, 887' MSL.

Tree 1.5 NM from DER, 2635' right of centerline, 891' MSL.

Tree 1.5 NM from DER, 2714' right of centerline, 894' MSL.

Tree 1.6 NM from DER, 2969' right of centerline, 909' MSL.

Tree 1.7 NM from DER, 3141' right of centerline, 926' MSL.

Trees beginning 1.7 NM from DER, 3098' right of centerline, up to 942' MSL.

Tree 1.8 nm from DER, 3343' right of centerline, 948' MSL.

Trees beginning 1.8 NM from DER, 3392' right of centerline, up to 956' MSL.

Tree 1.9 NM from DER, 3580' right of centerline, 962' MSL.

Tree 1.9 NM from DER, 3667' right of centerline, 985' MSL.

**Rwy 32**, tree 75' from DER, 311' left of centerline, 746' MSL.

Trees beginning 90' from DER, 10' left of centerline, up to 769' MSL.

Trees beginning 464' from DER, 463' right of centerline, up to 725' MSL.

Tree 783' from DER, 565' right of centerline, 730' MSL.

CON'T

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

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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND  
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**BETHEL, ME (CON'T)****BETHEL RGNL (0B1) (CON'T)****Rwy 32 (CON'T)**, trees beginning 935' from DER, 235' right of centerline, up to 734' MSL.

Trees beginning 1145' from DER, 250' right of centerline, up to 736' MSL.

Trees beginning 1252' from DER, 328' right of centerline, up to 737' MSL.

Trees beginning 1454' from DER, 110' right of centerline, up to 739' MSL.

Trees beginning 1501' from DER, 70' right of centerline, up to 750' MSL.

Trees beginning 1605' from DER, 61' right of centerline, up to 756' MSL.

Trees beginning 1834' from DER, 31' right of centerline, up to 759' MSL.

Trees beginning 3615' from DER, 328' left of centerline, up to 800' MSL.

Trees beginning 3945' from DER, 96' left of centerline, up to 805' MSL.

Trees beginning 4062' from DER, 140' right of centerline, up to 784' MSL.

Tree 4191' from DER, 166' right of centerline, 787' MSL.

Trees beginning 4225' from DER, 115' left of centerline, up to 837' MSL.

Tree 4236' from DER, 1621' right of centerline, 791' MSL.

Trees beginning 4351' from DER, 20' right of centerline, up to 807' MSL.

Tree 4466' from DER, 232' right of centerline, 813' MSL.

Tree 4471' from DER, 472' right of centerline, 821' MSL.

Tree 4673' from DER, 480' left of centerline, 848' MSL.

Trees beginning 4677' from DER, 121' left of centerline, up to 868' MSL.

Trees beginning 4721' from DER, 78' right of centerline, up to 829' MSL.

Tree 5059' from DER, 654' left of centerline, 891' MSL.

Trees beginning 5069' from DER, 140' right of centerline, up to 848' MSL.

Trees beginning 5121' from DER, 391' left of centerline, up to 895' MSL.

Trees beginning 5153' from DER, 271' right of centerline, up to 870' MSL.

Trees beginning 5389' from DER, 60' right of centerline, up to 907' MSL.

Trees beginning 5411' from DER, 217' left of centerline, up to 924' MSL.

Trees beginning 5456' from DER, 533' left of centerline, up to 937' MSL.

Trees beginning 5651' from DER, 197' left of centerline, up to 938' MSL.

Trees beginning 5722' from DER, 350' left of centerline, up to 941' MSL.

Tree 5756' from DER, 295' right of centerline, 908' MSL.

Tree 5823' from DER, 1929' right of centerline, 909' MSL.

Trees beginning 5857' from DER, 150' right of centerline, up to 938' MSL.

Tree 5908' from DER, 278' left of centerline, 967' MSL.

Trees beginning 5962' from DER, 31' left of centerline, up to 981' MSL.

Tree 5999' from DER, 10' right of centerline, 951' MSL.

Tree 1 NM from DER, 372' left of centerline, 1004' MSL.

Tree 1 NM from DER, 786' left of centerline, 1010' MSL.

Trees beginning 1 NM from DER, 60' left of centerline, up to 1021' MSL.

Trees beginning 1 NM from DER, 825' right of centerline, up to 984' MSL.

Tree 1.1 NM from DER, 1254' right of centerline, 988' MSL.

Trees beginning 1.1 NM from DER, 390' left of centerline, up to 1073' MSL.

Tree 1.1 NM from DER, 252' right of centerline, 1023' MSL.

Trees beginning 1.1 NM from DER, 784' right of centerline, up to 1045' MSL.

Tree 1.1 NM from DER, 1718' right of centerline, 1047' MSL.

Trees beginning 1.1 NM from DER, 112' left of centerline, up to 1131' MSL.

Tree 1.2 NM from DER, 1400' right of centerline, 1133' MSL.

Trees beginning 1.2 NM from DER, 160' right of centerline, up to 1179' MSL.

Tree 1.2 nm from DER, 2150' right of centerline, 1213' MSL.

Tree 1.2 NM from DER, 2584' right of centerline, 1238' MSL.

Trees beginning 1.3 NM from DER, 281' left of centerline, up to 1136' MSL.

Tree 1.3 NM from DER, 1633' right of centerline, 1322' MSL.

Tree 1.3 NM from DER, 1010' right of centerline, 1374' MSL.

Trees beginning 1.3 NM from DER, 468' right of centerline, up to 1505' MSL.

Tree 1.3 NM from DER, 821' left of centerline, 1165' MSL.

Trees beginning 1.3 NM from DER, 22' left of centerline, up to 1263' MSL.

Tree 1.4 NM from DER, 2307' right of centerline, 1782' MSL.

Trees beginning 1.4 nm from DER, 320' right of centerline, up to 1788' MSL.

Trees beginning 1.4 NM from DER, 17' left of centerline, up to 1344' MSL.

Trees beginning 1.4 NM from DER, 820' right of centerline, up to 1791' MSL.

Trees beginning 1.5 NM from DER, 182' right of centerline, up to 1840' MSL.

Trees beginning 2 NM from DER, 886' left of centerline, up to 1432' MSL.

Trees beginning 2.1 NM from DER, 243' left of centerline, up to 1618' MSL.

Trees and vehicles on road beginning 2.1 NM from DER, 999' left of centerline, up to 1637' MSL.

Tree Trees beginning 2.2 NM from DER, 188' right of centerline, up to 1914' MSL.

Trees beginning 2.2 NM from DER, 420' left of centerline, up to 1902' MSL.

Trees beginning 2.3 NM from DER, 35' left of centerline, up to 1937' MSL.

Trees beginning 2.3 NM from DER, 588' right of centerline, up to 2106' MSL.

Trees beginning 2.4 NM from DER, 1510' right of centerline, up to 2248' MSL.

Trees beginning 2.4 NM from DER, 880' right of centerline, up to 2269' MSL.

Trees beginning 2.5 NM from DER, 1659' right of centerline, up to 2373' MSL.

Trees beginning 2.5 NM from DER, 2081' right of centerline, up to 2397' MSL.

Trees beginning 2.5 NM from DER, 462' right of centerline, up to 2431' MSL.

Trees beginning 2.5 NM from DER, 782' right of centerline, up to 2488' MSL.

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

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## BEVERLY, MA

BEVERLY RGNL (BVY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES  
AMDT 3B 01MAR18 (18060) (FAA)

DEPARTURE PROCEDURE:

**Rwy 27**, climb heading 270° to 700 before turning left.

TAKEOFF OBSTACLE NOTES:

**Rwy 9**, bush 15' from DER, 407' right of centerline, 55' AGL/119' MSL.  
 Bush beginning 76' from DER, 377' right of centerline, up to 50' AGL/120' MSL.  
 Tree 127' from DER, 247' left of centerline, 29' AGL/112' MSL.  
 Bush beginning 135' from DER, 248' left of centerline, up to 27' AGL/103' MSL.  
 Bush 228' from DER, 532' left of centerline, 59' AGL/125' MSL.  
 Bush 273' from DER, 515' left of centerline, 73' AGL/138' MSL.  
 trees beginning 303' from DER, 227' right of centerline, up to 19' AGL/106' MSL.  
 Bush beginning 390' from DER, 113' right of centerline, up to 23' AGL/104' MSL.  
 Tree 520' from DER, 342' left of centerline, 77' AGL/138' MSL.  
 Bush beginning 552' from DER, 22' right of centerline, up to 45' AGL/108' MSL.  
 Tree 997' from DER, 394' right of centerline, 84' AGL/133' MSL.  
 Bush 1046' from DER, 141' left of centerline, 81' AGL/130' MSL.  
 Tree 1064' from DER, 539' right of centerline, 86' AGL/134' MSL.  
 Tree 1070' from DER, 619' left of centerline, 90' AGL/149' MSL.  
 Bush beginning 1077' from DER, 43' right of centerline, up to 84' AGL/138' MSL.  
 Tree 1176' from DER, 414' left of centerline, 99' AGL/155' MSL.  
 Bush beginning 1184' from DER, 252' left of centerline, up to 76' AGL/130' MSL.  
 Tree 1204' from DER, 385' right of centerline, 78' AGL/126' MSL.  
 Bush beginning 1301' from DER, 61' left of centerline, up to 81' AGL/131' MSL.  
 Bush 2414' from DER, 1027' left of centerline, 94' AGL/188' MSL.  
 Bush beginning 2438' from DER, 822' left of centerline, up to 106' AGL/197' MSL.  
 Trees beginning 2538' from DER, 633' left of centerline, up to 93' AGL/189' MSL.  
 Bush 2566' from DER, 647' left of centerline, 103' AGL/207' MSL.  
 Bush beginning 2598' from DER, 545' left of centerline, up to 85' AGL/212' MSL.  
 Tree 2661' from DER, 695' left of centerline, 112' AGL/228' MSL.  
 Tree 2662' from DER, 787' left of centerline, 113' AGL/232' MSL.  
 Bush beginning 2678' from DER, 226' left of centerline, up to 116' AGL/236' MSL.  
 Tree 2797' from DER, 543' left of centerline, 99' AGL/227' MSL.  
 Bush 2799' from DER, 330' right of centerline, 106' AGL/182' MSL.  
 Tree 2847' from DER, 141' left of centerline, 101' AGL/214' MSL.  
 Bush beginning 2851' from DER, 23' left of centerline, up to 83' AGL/223' MSL.  
 Tree beginning 2886' from DER, 70' left of centerline, up to 100' AGL/193' MSL.  
 Bush 2927' from DER, 259' right of centerline, 101' AGL/195' MSL.  
 Trees beginning 2930' from DER, 74' left of centerline, up to 101' AGL/214' MSL.  
 Bush beginning 2936' from DER, 66' right of centerline, up to 91' AGL/201' MSL.  
 Tree 2999' from DER, 464' right of centerline, 101' AGL/180' MSL.  
 Bush 3009' from DER, 235' left of centerline, 63' AGL/181' MSL.  
 Tree 3043' from DER, 537' right of centerline, 101' AGL/175' MSL.  
 Bush beginning 3047' from DER, 35' left of centerline, up to 64' AGL/180' MSL..  
**Rwy 16**, grd 15' from DER, 417' left of centerline, 87' MSL.  
 Rwy sign 17' from DER, 198' left of centerline, 3' AGL/85' MSL.  
 Nt Rwy lt 28' from DER, 82' left of centerline, 2' AGL/83' MSL.  
 Grd 100' from DER, 426' right of centerline, 89' MSL.  
 Bush beginning 113' from DER, 228' right of centerline, up to 27' AGL/125' MSL.  
 Bush beginning 212' from DER, 454' right of centerline, up to 72' AGL/136' MSL.  
 Bush beginning 247' from DER, 451' right of centerline, up to 78' AGL/139' MSL.  
 Bush 268' from DER, 442' left of centerline, 70' AGL/133' MSL.  
 Vehicle in parking lot 289' from DER, 520' right of centerline, 115' MSL.  
 Trees beginning 306' from DER, 263' right of centerline, up to 91' AGL/148' MSL.  
 Bush 312' from DER, 463' left of centerline, 93' AGL/150' MSL.  
 Trees beginning 322' from DER, 319' left of centerline, up to 88' AGL/145' MSL.  
 Bush beginning 378' from DER, 107' right of centerline, up to 76' AGL/135' MSL.  
 Bldg beginning 481' from DER, 616' right of centerline, up to 43' AGL/164' MSL.  
 Bldg 499' from DER, 482' right of centerline, 42' AGL/165' MSL.  
 Bldg 511' from DER, 619' right of centerline, 41' AGL/164' MSL.  
 Vehicle in parking lot 515' from DER, 444' right of centerline, 120' MSL.  
 Bush 531' from DER, 561' left of centerline, 79' AGL/132' MSL.  
 Bldg beginning 543' from DER, 488' right of centerline, up to 44' AGL/168' MSL.  
 Grd 574' from DER, 401' right of centerline, 115' MSL.  
 Bush 576' from DER, 618' left of centerline, 70' AGL/119' MSL.  
 Bldg 609' from DER, 509' right of centerline, 45' AGL/168' MSL.  
 Bush beginning 622' from DER, 345' left of centerline, up to 68' AGL/131' MSL.  
 Vehicle in parking lot 667' from DER, 673' right of centerline, 130' MSL.  
 Ground 669' from DER, 482' right of centerline, 130' MSL.  
 Vehicle in parking lot 679' from DER, 456' right of centerline, 127' MSL.  
 Bush 692' from DER, 422' left of centerline, 76' AGL/132' MSL.  
 Bldg 698' from DER, 655' right of centerline, 30' AGL/160' MSL.  
 Pole 723' from DER, 403' right of centerline, 43' AGL/159' MSL.

CON'T

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

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

21336

**BEVERLY, MA (CON'T)**

**BEVERLY RGNL (BVY) (CON'T)**

**Rwy 16 (CON'T)**, bush 744' from DER, 404' left of centerline, 77' AGL/132' MSL.

Bldg beginning 758' from DER, 515' right of centerline, up to 37' AGL/164' MSL.

Bldg beginning 857' from DER, 406' right of centerline, up to 33' AGL/179' MSL.

Stack 891' from DER, 517' right of centerline, 33' AGL/168' MSL.

Tree 894' from DER, 368' right of centerline, 31' AGL/150' MSL.

Bush 903' from DER, 496' left of centerline, 65' AGL/121' MSL.

Grd 908' from DER, 353' right of centerline, 118' MSL.

Vehicle in parking lot 918' from DER, 524' right of centerline, 128' MSL.

Bush beginning 938' from DER, 264' left of centerline, up to 53' AGL/109' MSL.

Vehicle in parking lot 994' from DER, 588' right of centerline, 129' MSL.

Grd beginning 1008' from DER, 490' right of centerline, up to 128' MSL.

Bush 1084' from DER, 173' right of centerline, 26' AGL/111' MSL.

Pole 1086' from DER, 434' right of centerline, 28' AGL/162' MSL.

Grd 1116' from DER, 710' right of centerline, 126' MSL.

Bldg 1123' from DER, 604' right of centerline, 36' AGL/167' MSL.

Bush beginning 1144' from DER, 164' right of centerline, up to 17' AGL/145' MSL.

Grd beginning 1200' from DER, 280' right of centerline, up to 129' MSL.

Bush beginning 1253' from DER, 183' left of centerline, up to 19' AGL/146' MSL.

Pole 1407' from DER, 480' right of centerline, 16' AGL/149' MSL.

Grd 1414' from DER, 597' right of centerline, 126' MSL.

Trail beginning 1438' from DER, 333' right of centerline, up to 135' MSL.

Bush beginning 1484' from DER, 281' right of centerline, up to 52' AGL/184' MSL.

Grd beginning 1553' from DER, 429' right of centerline, up to 124' MSL.

Bush beginning 1643' from DER, 243' right of centerline, up to 76' AGL/126' MSL.

Bush beginning 1702' from DER, 587' right of centerline, up to 57' AGL/192' MSL.

Tree 1711' from DER, 692' right of centerline, 73' AGL/193' MSL.

Bush 1732' from DER, 721' left of centerline, 75' AGL/126' MSL.

Grd beginning 1763' from DER, 448' right of centerline, up to 137' MSL.

Bush beginning 1776' from DER, 305' right of centerline, up to 5' AGL/132' MSL.

Lt pole 1821' from DER, 192' right of centerline, 31' AGL/139' MSL.

Bush beginning 1898' from DER, 92' right of centerline, up to 30' AGL/138' MSL.

Lt pole beginning 1949' from DER, 65' right of centerline, up to 31' AGL/139' MSL.

Bldg 2021' from DER, 427' right of centerline, 24' AGL/133' MSL.

Lt pole, beginning 2036' from DER, 44' left of centerline, up to 1' AGL/139' MSL.

Bldg 2098' from DER, 381' right of centerline, 39' AGL/148' MSL.

Lt pole 2129' from DER, 8' left of centerline, 31' AGL/136' MSL.

Bldg beginning 2182' from DER, 241' right of centerline, up to 42' AGL/151' MSL.

Smoke stk 2497' from DER, 356' right of centerline, 53' AGL/162' MSL.

Bldg beginning 2533' from DER, 354' right of centerline, up to 58' AGL/165' MSL.

Bush beginning 2860' from DER, 613' right of centerline, up to 61' AGL/162' MSL.

Bldg beginning 2909' from DER, 973' right of centerline, up to 56' AGL/156' MSL.

Bush beginning 3293' from DER, 1086' right of centerline, up to 72' AGL/166' MSL.

**Rwy 27**, bush 44' from DER, 439' left of centerline, 26' AGL/82' MSL.

Trees beginning 182' from DER, 229' left of centerline, up to 16' AGL/81' MSL.

Bush 214' from DER, 463' left of centerline, 49' AGL/98' MSL.

Tree 243' from DER, 318' right of centerline, 15' AGL/83' MSL.

Bushes beginning 279' from DER, 270' left of centerline, up to 31' AGL/92' MSL.

Tree 419' from DER, 119' left of centerline, 43' AGL/92' MSL.

Bush 455' from DER, 463' left of centerline, 62' AGL/100' MSL.

Trees beginning 456' from DER, 109' right of centerline, up to 55' AGL/99' MSL.

Bushes beginning 500' from DER, 46' right of centerline, up to 53' AGL/96' MSL.

Trees beginning 535' from DER, 249' right of centerline, up to 62' AGL/110' MSL.

Bushes beginning 547' from DER, 26' right of centerline, up to 56' AGL/92' MSL.

Tree 1170' from DER, 587' left of centerline, 82' AGL/111' MSL.

Bushes beginning 1202' from DER, 248' left of centerline, up to 85' AGL/114' MSL.

Bushes 2376' from DER, 653' right of centerline, 85' AGL/136' MSL.

Bush beginning 2394' from DER, 451' right of centerline, up to 86' AGL/137' MSL.

Bush beginning 2563' from DER, 1037' right of centerline, up to 85' AGL/140' MSL.

Bush beginning 2953' from DER, 958' right of centerline, up to 82' AGL/168' MSL.

Tree beginning 3041' from DER, 762' right of centerline, up to 103' AGL/160' MSL.

Bush beginning 3194' from DER, 1165' right of centerline, up to 91' AGL/190' MSL.

Tree 3232' from DER, 723' right of centerline, 97' AGL/157' MSL.

Bush beginning 3321' from DER, 1083' right of centerline, up to 89' AGL/185' MSL.

Bushes beginning 4347' from DER, 954' left of centerline, up to 82' AGL/201' MSL.

Bushes 4628' from DER, 1523' left of centerline, 86' AGL/202' MSL.

Bushes beginning 4659' from DER, 924' left of centerline, up to 82' AGL/208' MSL.

Bldgs beginning 5490' from DER, 530' left of centerline, up to 108' AGL/217' MSL.

**Rwy 34**, Nt MALS 11' from DER, on centerline, 2' AGL/109' MSL.

Bush 41' from DER, 270' right of centerline, 18' AGL/119' MSL.

Bush beginning 108' from DER, 399' right of centerline, up to 41' AGL/128' MSL.

Bush 276' from DER, 518' right of centerline, 66' AGL/145' MSL.

Bush 405' from DER, 452' right of centerline, 68' AGL/148' MSL.

Tree 431' from DER, 580' left of centerline, 58' AGL/152' MSL.

**CON'T**

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

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**BEVERLY, MA (CON'T)****BEVERLY RGNL (BVY) (CON'T)**

**Rwy 34, (CON'T)**, tree 460' from DER, 582' left of centerline, 63' AGL/156' MSL.  
 Bush beginning 461' from DER, 526' left of centerline, up to 63' AGL/154' MSL.  
 Tree 695' from DER, 338' left of centerline, 40' AGL/142' MSL.  
 Bush beginning 698' from DER, 282' left of centerline, up to 50' AGL/153' MSL.  
 Tree 905' from DER, 222' left of centerline, 39' AGL/141' MSL.  
 Bush beginning 940' from DER, 214' left of centerline, up to 34' AGL/135' MSL.  
 Tree 1032' from DER, 700' right of centerline, 86' AGL/174' MSL.  
 Bush beginning 1034' from DER, 89' right of centerline, up to 91' AGL/173' MSL.  
 Bush beginning 1238' from DER, 300' right of centerline, up to 96' AGL/182' MSL.  
 Pole, beginning 1309' from DER, 1' right of centerline, up to 9' AGL/158' MSL.  
 Tree 1622' from DER, 214' right of centerline, 78' AGL/167' MSL.  
 Bush beginning 1662' from DER, 458' right of centerline, up to 81' AGL/153' MSL.  
 Tree 1682' from DER, 499' left of centerline, 80' AGL/165' MSL.  
 Bush beginning 1686' from DER, 50' left of centerline, up to 71' AGL/166' MSL.  
 Tree 1911' from DER, 427' left of centerline, 79' AGL/164' MSL.  
 Bush beginning 1923' from DER, 22' left of centerline, up to 83' AGL/160' MSL.

**BIDDEFORD, ME****BIDDEFORD MUNI (B19)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

ORIG 25OCT07 (07298) (FAA)

**TAKEOFF MINIMUMS:**

**Rwy 24**, 300-2 or std. w/ min. climb of 214' per NM to 600, or alternatively, w/ std. takeoff minimums and normal 200'/NM climb gradient, takeoff must occur no later than 1700 prior to DER.

**TAKEOFF OBSTACLE NOTES:**

**Rwy 6**, multiple trees beginning 121' from DER, 243' left of centerline, up to 60' AGL/229' MSL.  
 Multiple trees beginning 23' from DER, 132' right of centerline, up to 60' AGL/219' MSL.  
 Multiple trees beginning 538' from DER, 6' right of centerline, up to 60' AGL/229' MSL.  
**Rwy 24**, multiple trees beginning 342' from DER, 287' left of centerline, up to 60' AGL/219' MSL.  
 Multiple trees beginning 492' from DER, 242' right of centerline, up to 60' AGL/209' MSL.  
 Multiple trees beginning 1317' from DER, 44' right of centerline, up to 60' AGL/209' MSL.  
 Assumed obstacle 1.7 NM from DER, 1802' right of centerline, 200' AGL/429' MSL.

**BLOCK ISLAND, RI****BLOCK ISLAND STATE (BID)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

AMD'T 3 11FEB10 (10042) (FAA)

**TAKEOFF OBSTACLE NOTES:**

**Rwy 10**, bush 136' from DER, 183' left of centerline, 9' AGL/110' MSL.  
 Tower 2736' from DER, 1203' left of centerline, 167' AGL/210' MSL.  
**Rwy 28**, buildings with chimneys beginning 1105' from DER, 8' left of centerline, up to 30' AGL/196' MSL.  
 Trees beginning 3' from DER, 4' left of centerline, up to 87' AGL/189' MSL.  
 Trees beginning 380' from DER, 70' left of centerline, up to 78' AGL/186' MSL.  
 Windmill with antennas 3437' from DER, 1005' right of centerline, 72' AGL/257' MSL.

02 DEC 2021 to 30 DEC 2021

02 DEC 2021 to 30 DEC 2021

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

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

21336

## BOSTON, MA

GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 15 07OCT21 (21280) (FAA)

### TAKEOFF MINIMUMS:

**Rwys 32, 33R, NA-Environmental.**

**Rwy 4L,** 300-1 or std. w/min. climb of 369' per NM to 300.

**Rwy 9,** 300-1¼ or std. w/min. climb of 266' per NM to 300.

**Rwy 14,** std. w/min. climb of 233' per NM to 1100.

**Rwy 22L,** 300-1 or std. if tower reports no tall vessels in the departure area.

**Rwy 22R,** 300-1¼ or std. w/min. climb of 320' per NM to 300.

**Rwy 27,** std. w/min. climb of 487' per NM to 1000.

**Rwy 33L,** 300-1¼ or std. w/min. climb of 232' per NM to 400, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 2100 feet prior to DER.

### DEPARTURE PROCEDURE:

**Rwys 4L/R,** climb on heading 035° to 500 before turning left.

**Rwy 22L,** climb on heading 215° to 800 before turning right.

**Rwy 22R,** climb on heading 215° to 900 before turning right.

**Rwy 33L,** climb on heading 330° to 700 before turning left.

### TAKEOFF OBSTACLE NOTES:

**Rwy 4L,** ships beginning 693' from DER, on centerline, up to 50' MSL.

Pole, tree beginning 1803' from DER, 724' right of centerline, up to 56' AGL/65' MSL.

Trees beginning 1989' from DER, 27' right of centerline, up to 74' MSL.

Tree 2091' from DER, 91' left of centerline, 65' AGL/77' MSL.

Trees beginning 2152' from DER, 33' left of centerline, up to 81' MSL.

Trees beginning 2279' from DER, 101' right of centerline, up to 57' AGL/77' MSL.

Trees beginning 2401' from DER, 211' left of centerline, up to 82' MSL.

Trees, pole beginning 3656' from DER, 1068' left of centerline, up to 120' MSL.

Stack 3763' from DER, 1142' left of centerline, 123' MSL.

Trees, stacks, vehicles on road beginning 3796' from DER, 627' left of centerline, up to 154' MSL.

Trees beginning 4021' from DER, 791' left of centerline, up to 156' MSL.

Tree 4085' from DER, 1069' left of centerline, 159' MSL.

Stacks, trees, vehicles on road beginning 4087' from DER, 476' left of centerline, up to 160' MSL.

Trees, pole, building beginning 4264' from DER, 638' left of centerline, up to 166' MSL.

**Rwy 4R,** ships beginning 578' from DER, on centerline, up to 50' MSL.

Pole, trees beginning 1806' from DER, 731' left of centerline, up to 56' AGL/65' MSL.

Vehicles on road 1842' from DER, 964' right of centerline, 62' MSL.

Vehicles on road 1948' from DER, 984' right of centerline, 66' MSL.

Trees beginning 1992' from DER, 380' left of centerline, up to 74' MSL.

Trees beginning 2282' from DER, 691' left of centerline, up to 57' AGL/77' MSL.

**Rwy 9,** lighting 11' from DER, 150' right of centerline, 17' MSL.

Lighting 11' from DER, 149' left of centerline, 16' MSL.

Ships beginning 761' from DER, on centerline, up to 65' MSL.

Tank 5904' from DER, 1456' left of centerline, 114' AGL/211' MSL.

Tank 5924' from DER, 1455' left of centerline, 205' MSL.

**Rwy 14,** lighting 10' from DER, 127' left of centerline, 20' MSL.

Lighting 10' from DER, 127' right of centerline, 21' MSL.

Terrain 82' from DER, 479' left of centerline, 26' MSL.

Antenna 480' from DER, 321' left of centerline, 68' MSL.

NAVAID 497' from DER, 317' left of centerline, 71' MSL.

Ship rig 5439' from DER, 1822' right of centerline, 176' MSL.

**Rwy 15L,** sign 8' from DER, 281' right of centerline, 5' AGL/17' MSL.

**Rwy 15R,** lighting 1' from DER, on centerline, 16' MSL.

**Rwy 22L,** lighting 40' from DER, 253' right of centerline, 20' MSL.

Pole 395' from DER, on centerline, 15' AGL/31' MSL.

Ship rig, tower beginning 2440' from DER, 34' left of centerline, up to 176' MSL.

Crane 3675' from DER, 439' right of centerline, 145' AGL/145' MSL.

Cranes, vehicles on road beginning 3720' from DER, 447' right of centerline, up to 147' MSL.

**Rwy 22R,** ship rig 4064' from DER, 8' right of centerline, 176' MSL.

Ship rig 4585' from DER, 1534' left of centerline, 176' MSL.

Vehicles on road 1 NM from DER, 1850' right of centerline, 208' MSL.

Stack 1.4 NM from DER, 2796' right of centerline, 238' AGL/263' MSL.

Stack 1.4 NM from DER, 2793' right of centerline, 260' MSL.

**Rwy 27,** sign 18' from DER, 139' left of centerline, 18' MSL.

Building 1211' from DER, 750' right of centerline, 50' MSL.

Tree 1617' from DER, 820' right of centerline, 59' MSL.

Pole, lighting beginning 1690' from DER, 750' right of centerline, up to 84' AGL/100' MSL.

Building 1.2 NM from DER, 1178' left of centerline, 238' MSL.

Building 1.2 NM from DER, 988' left of centerline, 240' MSL.

Building 1.2 NM from DER, 971' left of centerline, 230' AGL/242' MSL.

Buildings beginning 1.2 NM from DER, 1040' left of centerline, up to 243' MSL.

Buildings beginning 1.2 NM from DER, 533' left of centerline, up to 248' MSL.

Buildings, stack beginning 1.3 NM from DER, 501' left of centerline, up to 250' MSL.

Buildings beginning 1.3 NM from DER, 137' right of centerline, up to 250' AGL/260' MSL.

Building 1.3 NM from DER, 185' left of centerline, 252' MSL.

CON'T

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

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

21336

## BOSTON, MA (CON'T)

### GENERAL EDWARD LAWRENCE LOGAN INTL (BOS) (CON'T)

**Rwy 27 (CON'T)**, buildings beginning 1.3 NM from DER, 112' left of centerline, up to 251' AGL/261' MSL.

Building 1.3 nm from DER, 95' right of centerline, 259' AGL/269' MSL.

Buildings beginning 1.3 NM from DER, 118' left of centerline, up to 259' AGL/269' MSL.

Cranes, buildings beginning 1.4 NM from DER, 62' right of centerline, up to 411' MSL.

Building 1.4 NM from DER, 106' left of centerline, 261' AGL/271' MSL.

Building 1.5 NM from DER, 207' left of centerline, 267' AGL/278' MSL.

Antenna, buildings beginning 1.6 NM from DER, 2984' right of centerline, up to 414' MSL.

Buildings beginning 1.6 NM from DER, 2511' right of centerline, up to 484' MSL.

Building 1.6 NM from DER, 2655' right of centerline, 548' AGL/560' MSL.

Building 1.6 NM from DER, 2468' right of centerline, 635' MSL.

Buildings, antennas, stack, building tower beginning 1.6 NM from DER, 1533' right of centerline, up to 615' AGL/639' MSL.

Buildings, poles, antennas beginning 1.8 nm from DER, 1114' right of centerline, up to 677' AGL/690' MSL.

Buildings, antenna beginning 1.9 NM from DER, 1507' right of centerline, up to 701' AGL/720' MSL.

Building tower, buildings, crane beginning 2 NM from DER, 1775' right of centerline, up to 698' AGL/730' MSL.

Crane 2.2 NM from DER, 1690' right of centerline, 512' MSL.

**Rwy 33L**, tree 248' from DER, 377' right of centerline, 16' AGL/27' MSL.

Building 1346' from DER, 705' right of centerline, 41' AGL/51' MSL.

Tanks beginning 1677' from DER, 925' left of centerline, up to 51' AGL/67' MSL.

Building 1933' from DER, 862' left of centerline, 70' MSL.

Buildings beginning 1946' from DER, 602' left of centerline, up to 58' AGL/73' MSL.

Trees beginning 2119' from DER, 52' right of centerline, up to 82' MSL.

Trees beginning 2214' from DER, 43' right of centerline, up to 72' AGL/84' MSL.

Trees beginning 2328' from DER, 35' right of centerline, up to 85' MSL.

Tree 2437' from DER, 1033' right of centerline, 96' MSL.

Tree 2448' from DER, 928' right of centerline, 99' MSL.

Signs, tank beginning 3015' from DER, 860' right of centerline, up to 73' AGL/101' MSL.

Tree 3969' from DER, 567' left of centerline, 63' AGL/118' MSL.

Tree 3987' from DER, 594' left of centerline, 122' MSL.

Building 4364' from DER, 1080' left of centerline, 64' AGL/129' MSL.

Trees beginning 4511' from DER, 1142' left of centerline, up to 134' MSL.

Building, stack beginning 4925' from DER, 1491' left of centerline, up to 151' MSL.

Bridge 1.3 NM from DER, 2564' left of centerline, 262' AGL/262' MSL.

### DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 28APR16 (16119) (FAA)

**Rwy 14**, heading as assigned by ATC; requires min. climb of 240' per NM to 1100.

**Rwy 22L**, heading as assigned by ATC; requires min. climb of 330' per NM to 1200.

**Rwy 22R**, heading as assigned by ATC; requires min. climb of 310' per NM to 500.

**Rwy 33L**, heading as assigned by ATC; requires min. climb of 300' per NM to 1200.

## BRIDGEPORT, CT

### IGOR I SIKORSKY MEML (BDR)

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

AMDT 5 20OCT11 (21112) (FAA)

#### TAKEOFF MINIMUMS:

**Rwy 29**, 600-2¼ or std. w/min. climb of 300' per NM to 700.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 6**, fence 14' from DER, 95' left of centerline, 17' AGL/18' MSL.

Vehicles on road beginning 79' from DER, 1' right of centerline, up to 15' AGL/25' MSL.

**Rwy 11**, vehicles on road beginning 195' from DER, 127' left of centerline, up to 15' AGL/28' MSL.

Vehicles on road and poles beginning 207' from DER, 6' right of centerline, up to 73' AGL/73' MSL.

**Rwy 24**, vehicles on road beginning 484' from DER, 537' right of centerline, up to 15' AGL/25' MSL.

**Rwy 29**, building 555' from DER, 622' right of centerline, 57' AGL/59' MSL.

Stack 2.2 NM from DER. 275' left of centerline, 497' AGL/512' MSL.

## BRUNSWICK, ME

### BRUNSWICK EXEC (BXM)

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

ORIG 25AUG11 (21224) (FAA)

#### TAKEOFF OBSTACLE NOTES:

**Rwy 1L**, tree 2018' from DER, 943' right of centerline, 100' AGL/159' MSL.

Trees beginning 2272' from DER, 335' left of centerline, up to 100' AGL/159' MSL.

**Rwy 1R**, tree 1985' from DER, 345' right of centerline, 100' AGL/156' MSL.

Tree 2823' from DER, 1045' left of centerline, 100' AGL/159' MSL.

**Rwy 19L**, trees beginning 2170' from DER, 457' left of centerline, up to 100' AGL/179' MSL.

Tree 2136' from DER, 498' right of centerline, 100' AGL/169' MSL.

**Rwy 19R**, trees beginning 2137' from DER, 201' left of centerline, up to 100' AGL/179' MSL.

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

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

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## BURLINGTON, VT

### BURLINGTON INTL (BTV)

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

AMDT 13 29JUL10 (10210) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 1**, std. w/ min. climb of 290' per NM to 3200 or 3000-3 for climb in visual conditions.

**Rwy 15**, std. w/ min. climb of 375' per NM to 5900 or 3000-3 for climb in visual conditions.

**Rwy 19**, std. w/ min. climb of 290' per NM to 5300 or 3000-3 for climb in visual conditions.

**Rwy 33**, std. w/ min. climb of 210' per NM to 2400 or 3000-3 for climb in visual conditions.

##### DEPARTURE PROCEDURE:

**Rwy 1**, climb heading 006° to 3200 before proceeding on course or for climb in visual conditions cross Burlington Intl airport at or above 3200 before proceeding on course.

**Rwy 15**, for climb in visual conditions cross Burlington Intl airport at or above 3200 before proceeding on course.

**Rwy 19**, climb heading 186° to 3200 before proceeding on course or for climb in visual conditions cross Burlington Intl airport at or above 3200 before proceeding on course.

**Rwy 33**, climb heading 326° to 2400 before proceeding on course or for climb in visual conditions cross Burlington Intl airport at or above 3200 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 1**, trees beginning 1396' from DER, 216' right of centerline, up to 64' AGL/384' MSL trees 1694' from DER, 200' left of centerline, up to 80' AGL/380' MSL.

**Rwy 15**, bush 318' from DER, 292' left of centerline, up to 23' AGL/343' MSL.

Trees beginning 1418' from DER, 358' right of centerline, up to 27 feet AGL/387' MSL.

Hopper and trees beginning 1801' from DER, 377' left of centerline, up to 63' AGL/403' MSL.

Building 3453' from DER, 1145' left of centerline, 110' AGL/430' MSL.

**Rwy 19**, trees beginning 168' from DER, 24' right of centerline, up to 56' AGL/436' MSL.

Trees beginning 172' from DER, 184' left of centerline, up to 93' AGL/413' MSL.

**Rwy 33**, pole and trees beginning 971' from DER, 755' left of centerline, up to 97' AGL/357' MSL.

Trees 1091' from DER, 590' right of centerline, up to 34' AGL/334' MSL.

## CARIBOU, ME

### CARIBOU MUNI (CAR)

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

AMDT 1 02MAR95 (95061) (FAA)

##### TAKEOFF MINIMUMS:

**Rwys 1, 11, 19, 29**, 300-1.

## CARRABASSETT, ME

### SUGARLOAF RGNL (B21)

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

ORIG 12OCT17 (17285) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 17**, 1200-3 w/min. climb of 530' per NM to 4700 or 3800-3 for climb in visual conditions.

**Rwy 35**, 3800-3 for climb in visual conditions.

##### DEPARTURE PROCEDURE:

**Rwy 17**, climb heading 173° to 4700 before proceeding on course.

##### VCOA:

Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Sugarloaf Rgnl airport at or above 4500 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 17**, trees and terrain beginning 30' from DER, left and right of centerline, up to 100' AGL/970' MSL.

Trees and terrain beginning 468' from DER, 19' right of centerline, up to 100' AGL/980' MSL.

Trees and terrain beginning 2171' from DER, left and right of centerline, up to 100' AGL/1039' MSL.

Trees and terrain beginning 4012' from DER, left and right of centerline, up to 100' AGL/1291' MSL.

Trees and terrain beginning 1 NM from DER 456' left and right of centerline, up to 100' AGL/1593' MSL.

Trees and terrain beginning 1.6 NM from DER, left and right of centerline, up to 100' AGL/1861' MSL.

Trees and terrain beginning 2.75 NM from DER, 2831' left of centerline, up to 100' AGL/2020' MSL.

Trees and terrain beginning 3 NM from DER, 1192' left of centerline, up to 100' AGL/1900' MSL.

**Rwy 35**, trees and terrain beginning 38' from DER, left and right of course, up to 100' AGL/890' MSL.

Trees and terrain beginning 495' from DER, 388' right of centerline, up to 100' AGL/909' MSL.

Trees and terrain beginning 1128' from DER, 140' right of centerline, up to 100' AGL/1086' MSL.

Trees and terrain beginning 4065' from DER, left and right of centerline, up to 100' AGL/1126' MSL.

Trees and terrain beginning 4435' from DER, 44' left of centerline, up to 100' AGL/1319' MSL.

Trees and terrain beginning 1 NM from DER, left and right of centerline, up to 100' AGL/1355' MSL.

Trees and terrain beginning 1.1 NM from DER, left and right of centerline, up to 100' AGL/1392' MSL.

Trees and terrain beginning 1.2 NM from DER, 199' left of centerline, up to 100' AGL/1398' MSL.

Trees and terrain beginning 1.3 NM from DER, left and right of centerline, up to 100' AGL/1447' MSL.

Trees and terrain beginning 1.4 NM from DER, left and right of centerline, up to 100' AGL/1474' MSL.

Trees and terrain beginning 1.5 NM from DER, 233' left of centerline, up to 100' AGL/1477' MSL.

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

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

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## CHATHAM, MA

### CHATHAM MUNI (CQX)

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

ORIG 25OCT07 (07298) (FAA)

#### TAKEOFF MINIMUMS:

**Rwy 6**, 300-1 or std. w/ min. climb of 462' per NM to 300.

**Rwy 24**, 400-2 or std. w/ min. climb of 248' per NM to 500.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 6**, multiple trees beginning 26' from DER, 158' left of centerline, up to 100' AGL/169' MSL.

Multiple trees beginning 62' from DER, 245' right of centerline, up to 100' AGL/159' MSL.

**Rwy 24**, multiple trees beginning 179' from DER, 216' left of centerline, up to 100' AGL/159' MSL.

Multiple trees beginning 318' from DER, 227' right of centerline, up to 100' AGL/159' MSL.

Tower 1.6 NM from DER, 2526' right of centerline, 313' AGL/318' MSL.

## CHESTER, CT

### CHESTER (SNC)

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

ORIG 18NOV10 (10322) (FAA)

#### TAKEOFF MINIMUMS:

**Rwy 35**, 300-3 or std. w/ min. climb of 285' per NM to 900.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 17**, trees beginning at DER, 350' left of centerline CW to 250' right of centerline, up to 100' AGL/449' MSL.

**Rwy 35**, tree 6015' from DER, 586' right of centerline 100' AGL/609' MSL.

Tree 1.7 NM from DER, 847' right of centerline 200' AGL/709' MSL.

Tree line beginning 100' from DER, 250' left of centerline to 1000' right of centerline, up to 100' AGL/469' MSL.

## CLAREMONT, NH

### CLAREMONT MUNI (CNH)

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

AMDT 3 05DEC19 (19339) (FAA)

#### TAKEOFF MINIMUMS:

**Rwys 11, 29**, 3100-3 for climb in visual conditions.

#### VCOA:

**Rwys 11, 29**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Claremont Muni at or above 3500 before proceeding on course.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 11**, terrain 10' from DER, 8' right of centerline, 543' MSL.

Trees and vegetation beginning 21' from DER, 73' left of centerline, up to 571' MSL.

Trees beginning 44' from DER, 120' right of centerline, up to 613' MSL.

Tree 1835' from DER, 63' left of centerline, 602' MSL.

Tree 1923' from DER, 16' left of centerline, 619' MSL.

Trees beginning 1965' from DER, 14' right of centerline, up to 619' MSL.

Trees beginning 2250' from DER, 123' right of centerline, up to 636' MSL.

Trees beginning 2294' from DER, 16' right of centerline, up to 642' MSL.

Trees beginning 2946' from DER, 35' left of centerline, up to 640' MSL.

Trees beginning 2954' from DER, 29' right of centerline, up to 645' MSL.

Trees beginning 3362' from DER, 285' right of centerline, up to 660' MSL.

Tree 1.4 NM from DER, 2369' right of centerline, 768' MSL.

Trees beginning 1.4 NM from DER, 1996' right of centerline, up to 832' MSL.

Trees beginning 1.5 NM from DER, 1803' right of centerline, up to 943' MSL.

Tree 1.6 NM from DER, 2488' left of centerline, 802' MSL.

Trees beginning 1.6 NM from DER, 2880' left of centerline, up to 838' MSL.

Tree 1.8 NM from DER, 3005' left of centerline, 855' MSL.

Tree 1.9 NM from DER, 2902' left of centerline, 856' MSL.

Trees beginning 1.9 NM from DER, 2004' left of centerline, up to 888' MSL.

Trees beginning 2 NM from DER, 1102' left of centerline, up to 899' MSL.

Tree 2 NM from DER, 2839' left of centerline, 1093' MSL.

Trees beginning 2 NM from DER, 325' left of centerline, up to 1117' MSL.

Trees beginning 2.1 NM from DER, 1477' left of centerline, up to 1134' MSL.

Trees beginning 2.4 NM from DER, 2994' left of centerline, up to 1136' MSL.

**Rwy 29**, terrain 1' from DER, 1' right of centerline, 533' MSL.

Tree 3' from DER, 321' left of centerline, 573' MSL.

Tree, pole and transmission line beginning 11' from DER, 47' right of centerline, up to 587' MSL.

Trees beginning 324' from DER, 126' left of centerline, up to 590' MSL.

Tree 1910' from DER, 108' right of centerline, 588' MSL.

Tree 1973' from DER, 198' right of centerline, 600' MSL.

Trees beginning 1980' from DER, 29' right of centerline, up to 611' MSL.

Trees beginning 2040' from DER, 124' left of centerline, up to 608' MSL.

Tree 2074' from DER, 168' right of centerline, 617' MSL.

Trees beginning 2079' from DER, 67' right of centerline, up to 628' MSL.

Tree 2125' from DER, 183' left of centerline, 634' MSL.

Trees beginning 2137' from DER, 80' left of centerline, up to 648' MSL.

Tree 2190' from DER, 190' right of centerline, 652' MSL.

CON'T

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

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

  
**DIVERSE VECTOR AREA (RADAR VECTORS)**

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**CLAREMONT, NH (CON'T)****CLAREMONT MUNI (CNH) (CON'T)**

**Rwy 29 (CON'T)**, tree 2220' from DER, 89' right of centerline, 663' MSL.  
 Tree 2224' from DER, 199' left of centerline, 652' MSL.  
 Tree 2236' from DER, 309' right of centerline, 686' MSL.  
 Trees beginning 2238' from DER, 96' left of centerline, up to 665' MSL.  
 Trees beginning 2304' from DER, 18' left of centerline, up to 668' MSL.  
 Tree 2334' from DER, 214' right of centerline, 695' MSL.  
 Trees beginning 2338' from DER, 112' left of centerline, up to 675' MSL.  
 Tree 2344' from DER, 356' right of centerline, 713' MSL.  
 Trees beginning 2359' from DER, 9' right of centerline, up to 719' MSL.  
 Tree 2427' from DER, 222' left of centerline, 678' MSL.  
 Trees beginning 2465' from DER, 101' left of centerline, up to 684' MSL.  
 Trees beginning 2570' from DER, 15' left of centerline, up to 705' MSL.  
 Trees beginning 3525' from DER, 2' right of centerline, up to 720' MSL.  
 Trees beginning 3582' from DER, 129' left of centerline, up to 712' MSL.  
 Tree 3601' from DER, 443' right of centerline, 737' MSL.  
 Trees beginning 3640' from DER, 145' right of centerline, up to 738' MSL.  
 Trees beginning 3667' from DER, 17' left of centerline, up to 720' MSL.  
 Trees beginning 3710' from DER, 149' right of centerline, up to 753' MSL.  
 Trees beginning 3813' from DER, 19' right of centerline, up to 761' MSL.  
 Trees and agricultural equipment beginning 3928' from DER, 75' right of centerline, up to 778' MSL.  
 Trees beginning 4019' from DER, 53' left of centerline, up to 724' MSL.  
 Tree 4028' from DER, 436' right of centerline, 781' MSL.  
 Trees beginning 4032' from DER, 46' right of centerline, up to 789' MSL.  
 Trees beginning 4122' from DER, 4' left of centerline, up to 734' MSL.  
 Trees beginning 4583' from DER, 9' right of centerline, up to 807' MSL.  
 Tree 4804' from DER, 128' left of centerline, 744' MSL.  
 Trees beginning 4824' from DER, 24' left of centerline, up to 745' MSL.  
 Trees beginning 4927' from DER, 63' left of centerline, up to 749' MSL.  
 Trees beginning 5041' from DER, 15' right of centerline, up to 840' MSL.  
 Trees beginning 5067' from DER, 84' left of centerline, up to 752' MSL.  
 Trees beginning 5168' from DER, 92' left of centerline, up to 754' MSL.  
 Trees beginning 5320' from DER, 145' left of centerline, up to 758' MSL.  
 Trees beginning 5394' from DER, 308' left of centerline, up to 774' MSL.  
 Trees beginning 5403' from DER, 7' left of centerline, up to 776' MSL.  
 Trees beginning 5567' from DER, 278' left of centerline, up to 799' MSL.  
 Trees beginning 5593' from DER, 6' left of centerline, up to 832' MSL.  
 Trees beginning 5769' from DER, 10' right of centerline, up to 850' MSL.  
 Tree 5771' from DER, 351' left of centerline, 833' MSL.  
 Trees beginning 5772' from DER, 79' left of centerline, up to 838' MSL.  
 Tree 5872' from DER, 427' left of centerline, 842' MSL.  
 Tree 5879' from DER, 557' left of centerline, 861' MSL.  
 Trees beginning 5898' from DER, 102' left of centerline, up to 872' MSL.  
 Trees beginning 5995' from DER, 188' left of centerline, up to 893' MSL.  
 Trees beginning 1 NM from DER, 384' right of centerline, up to 866' MSL.  
 Tree 1 NM from DER, 1318' left of centerline, 929' MSL.  
 Tree 1 NM from DER, 949' left of centerline, 946' MSL.  
 Trees beginning 1 NM from DER, 4' left of centerline, up to 953' MSL.  
 Tree 1.1 NM from DER, 1254' right of centerline, 871' MSL.  
 Tree 1.1 NM from DER, 596' right of centerline, 879' MSL.  
 Tree 1.1 NM from DER, 1381' right of centerline, 917' MSL.  
 Tree 1.1 NM from DER, 2054' right of centerline, 929' MSL.  
 Trees beginning 1.1 NM from DER, 1018' right of centerline, up to 1000' MSL.  
 Tree 1.2 NM from DER, 1112' right of centerline, 1013' MSL.  
 Trees beginning 1.2 NM from DER, 1' right of centerline, up to 1017' MSL.  
 Trees beginning 2.3 NM from DER, 969' right of centerline, up to 1024' MSL.  
 Trees beginning 2.4 NM from DER, 454' right of centerline, up to 1031' MSL.  
 Tree and rising terrain beginning 2.4 NM from DER, 968' right of centerline, up to 1031' MSL.  
 Tree 2.4 NM from DER, 3881' left of centerline, 959' MSL.  
 Trees beginning 2.5 NM from DER, 938' left of centerline, up to 967' MSL.  
 Tree 2.5 NM from DER, 3781' right of centerline, 1087' MSL.  
 Trees beginning 2.5 NM from DER, 215' right of centerline, up to 1088' MSL.  
 Trees beginning 2.5 NM from DER, 227' left of centerline, up to 1078' MSL.

02 DEC 2021 to 30 DEC 2021

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

  
**DIVERSE VECTOR AREA (RADAR VECTORS)**

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

21336

## CONCORD, NH

### CONCORD MUNI (CON)

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

AMDT 4 29MAY14 (14149) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 12**, std. w/min. climb of 305' per NM to 1000 or 1300-2½ for climb in visual conditions.

**Rwy 17**, 300-2¼ or std. w/min. climb of 260' per NM to 700.

**Rwy 30**, std. w/min. climb of 235' per NM to 1200 or 1300-2½ for climb in visual conditions.

##### DEPARTURE PROCEDURE:

**Rwy 12**, climb heading 121° to 800 then climbing right turn to CON VORTAC before proceeding on course, or for climb in visual conditions cross Concord Muni airport at or above 1500 before proceeding on course. When executing VCOA, notify ATC prior to departure.

**Rwy 17**, climb heading 171° to 1000 before turning left.

**Rwy 30**, climb heading 301° to 900 before proceeding on course, or for climb in visual conditions cross Concord Muni airport at or above 1500 before proceeding on course. When executing VCOA, notify ATC prior to departure.

**Rwy 35**, climb heading 341° to 1200 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 12**, tree abeam DER, 267' left of centerline, 16' AGL/361' MSL.

Tree 6' from DER, 353' right of centerline, 54' AGL/396' MSL.

Trees beginning 88' from DER, 7' left of centerline, up to 69' AGL/391' MSL.

Trees beginning 106' from DER, 100' right of centerline, up to 52' AGL/394' MSL.

Pole 483' from DER, 324' right of centerline, 45' AGL/376' MSL.

Trees beginning 1032' from DER, 131' left of centerline, up to 86' AGL/421' MSL.

Trees beginning 1075' from DER, 207' right of centerline, up to 100' AGL/431' MSL.

Tree 1.1NM from DER, 2142' right of centerline, 107' AGL/513' MSL.

Tree beginning 1.5NM from DER, 2160' left of centerline, 76' AGL/622' MSL.

**Rwy 17**, trees beginning 95' from DER, 285' left of centerline, up to 88' AGL/378' MSL.

Trees beginning 984' from DER, 509' right of centerline, up to 77' AGL/406' MSL.

Tree 1252' from DER, 658' left of centerline, 69' AGL/371' MSL.

Trees beginning 1.3NM from DER, 1048' left of centerline, up to 102' AGL/618' MSL.

Tower 1.6NM from DER, 2080' left of centerline, 90' AGL/607' MSL.

**Rwy 30**, trees and poles beginning 554' from DER, 330' right of centerline, up to 59' AGL/400' MSL.

Tower 613' from DER, 580' left of centerline, 38' AGL/378' MSL.

Building 627' from DER, 184' right of centerline, 21' AGL/362' MSL.

Trees beginning 1132' from DER, 271' left of centerline, up to 98' AGL/430' MSL.

Tower 1177' from DER, 381' left of centerline, 47' AGL/385' MSL.

Building 1190' from DER, 390' left of centerline, 41' AGL/379' MSL.

Building 1734' from DER, 522' right of centerline, 60' AGL/399' MSL.

Trees beginning 1893' from DER, 126' left of centerline, up to 112' AGL/442' MSL.

Trees beginning 2108' from DER, 47' right of centerline, up to 105' AGL/437' MSL.

**Rwy 35**, fence 259' from DER, 492' left of centerline, 8' AGL/348' MSL.

Vehicle on road beginning 276' from DER, 91' left of centerline, 15' AGL/372' MSL.

Buildings beginning 296' from DER, 256' left of centerline, up to 21' AGL/362' MSL.

Trees beginning 409' from DER, 60' left of centerline, up to 62' AGL/403' MSL.

Trees beginning 539' from DER, 17' right of centerline, up to 72' AGL/415' MSL.

Poles beginning 643' from DER, 53' right of centerline, up to 34' AGL/376' MSL.

Poles beginning 703' from DER, 276' left of centerline, up to 41' AGL/381' MSL.

Trees beginning 1142' from DER, 20' left of centerline, up to 102' AGL/440' MSL.

Trees beginning 1298' from DER, 39' right of centerline, up to 87' AGL/430' MSL.

## DANBURY, CT

### DANBURY MUNI (DXR)

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

AMDT 4A 25FEB21 (21056) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 17**, NA - Terrain.

**Rwy 8**, 600-2.

**Rwy 26**, 600-3.

**Rwy 35**, std. w/ min. climb of 472' per NM to 1200 or 1200-3 for VCOA.

##### DEPARTURE PROCEDURE:

**Rwy 8**, climb on heading 084° to 1200 before proceeding on course.

**Rwy 26**, climb on heading 264° to 1200 before proceeding on course.

##### VCOA:

**Rwy 35**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Danbury Muni Airport at or above 1500 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 8**, sign, vegetation, fence, buildings, poles, trees, vehicle on road beginning 27' from DER, 4' left of centerline, up to 1' AGL/455' MSL.

Vehicle on road 76' from DER, 235' right of centerline, 479' MSL.

Trees, vehicle on road, poles, sign, fence beginning 94' from DER, 28' right of centerline, up to 519' MSL.

Tree 436' from DER, 593' right of centerline, 532' MSL.

Poles, vehicle on road, sign, trees beginning 469' from DER, 18' right of centerline, up to 41' AGL/535' MSL.

Trees, poles, buildings, vehicle on road beginning 475' from DER, 38' left of centerline, up to 500' MSL.

Trees, pole beginning 1065' from DER, 99' right of centerline, up to 546' MSL.

CON'T

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

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

21336

## DANBURY, CT (CON'T)

### DANBURY MUNI (DXR) (CON'T)

**Rwy 8 (CON'T)**, trees, vegetation beginning 1314' from DER, 92' left of centerline, up to 591' MSL.

Trees beginning 1347' from DER, 421' right of centerline, up to 584' MSL.

Buildings, vegetation, trees beginning 1583' from DER, 194' left of centerline, up to 60' AGL/641' MSL.

Trees, buildings, terrain, poles, vehicle on road, fence, sign beginning 1716' from DER, 1' left of centerline, up to 671' MSL.

Transmission line, trees, vehicle on road, poles, catenary, terrain, tower, buildings, wall beginning 1758' from DER, 13' right of centerline, up to 612' MSL.

Trees, buildings, poles, catenary, sign, tower beginning 2896' from DER, 14' right of centerline, up to 723' MSL.

Catenary, trees, building beginning 3585' from DER, 22' right of centerline, up to 26' AGL/643' MSL.

Water tower, tank, trees beginning 5603' from DER, 162' right of centerline, up to 34' AGL/610' MSL.

Buildings, trees beginning 1.2 NM from DER, 784' right of centerline, up to 118' AGL/722' MSL.

Antenna 1.2 NM from DER, 2366' right of centerline, 271' AGL/1012' MSL.

Tower, trees beginning 1.2 NM from DER, 558' right of centerline, up to 271' AGL/1013' MSL.

**Rwy 26**, trees, fences, poles, buildings, catenarays beginning 3' from DER, 5' right of centerline, up to 506' MSL.

Trees, fences, vegetation, buildings, sign, poles beginning 59' from DER, 6' left of centerline, up to 506' MSL.

Catenarays, poles, trees, buildings beginning 1066' from DER, 61' right of centerline, up to 31' AGL/490' MSL.

Trees, terrain, buildings, vegetation, fences, towers beginning 1236' from DER, 96' left of centerline, up to 625' MSL.

Buildings, trees beginning 1355' from DER, 16' right of centerline, up to 38' AGL/511' MSL.

Trees, poles, buildings beginning 1738' from DER, 11' left of centerline, up to 692' MSL.

Trees, buildings, poles beginning 2427' from DER, 6' right of centerline, up to 706' MSL.

Trees, buildings, antennas, poles, fences, terrain beginning 4766' from DER, 38' left of centerline, up to 799' MSL.

**Rwy 35**, pole 24' from DER, 387' left of centerline, 34' AGL/484' MSL.

Fence 44' from DER, 59' left of centerline, 18' AGL/458' MSL.

Vehicle on road beginning 84' from DER, 15' left of centerline, up to 466' MSL.

Vehicle on road 93' from DER, 53' right of centerline, 467' MSL.

Vehicle on road beginning 97' from DER, 141' right of centerline, up to 468' MSL.

Vehicle on road, vegetation beginning 105' from DER, 4' right of centerline, up to 469' MSL.

Vegetation, tree beginning 127' from DER, 36' left of centerline, up to 456' MSL.

Trees, poles beginning 178' from DER, 52' right of centerline, up to 472' MSL.

Poles, trees beginning 417' from DER, 23' left of centerline, up to 30' AGL/471' MSL.

Buildings, poles, trees beginning 733' from DER, 3' right of centerline, up to 44' AGL/517' MSL.

Buildings, trees, poles beginning 916' from DER, 65' right of centerline, up to 95' AGL/521' MSL.

Trees beginning 942' from DER, 12' left of centerline, up to 507' MSL.

Terrain, trees beginning 4129' from DER, 471' right of centerline, up to 568' MSL.

## DANIELSON, CT

### DANIELSON (LZD)

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

AMDT 4 19JUL18 (18200) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 13**, std. w/min. climb of 340' per NM to 900 or 1100-3 for VCOA.

**Rwy 31**, 400-3 w/min. climb of 270' per NM to 800 or std. w/min. climb of 470 to 500 or 1100-3 for VCOA.

##### VCOA:

**Rwy 13, 31**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Danielson Airport at or above 1200 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 13**, terrain 14' from DER, 315' left of centerline, 234' MSL.

NAVAID 25' from DER, 78' left of centerline, 4' AGL/235' MSL.

Trees, poles, fences, buildings, traverse ways beginning 40' from DER, 180' left of centerline, up to 304' MSL.

Tree 87' from DER, 176' right of centerline, 284' MSL.

Trees beginning 157' from DER, 209' right of centerline, up to 338' MSL.

Tree 333' from DER, 410' right of centerline, 342' MSL.

Trees, traverse ways, fences, poles, buildings beginning 342' from DER, 3' right of centerline, up to 346' MSL.

Trees, poles beginning 1040' from DER, 235' left of centerline, up to 343' MSL.

Trees, poles beginning 1285' from DER, 16' left of centerline, up to 347' MSL.

Trees beginning 5565' from DER, 1611' left of centerline, up to 403' MSL.

Spire 5604' from DER, 1482' right of centerline, 161' AGL/397' MSL.

Tree 5730' from DER, 1713' left of centerline, 407' MSL.

Trees beginning 5794' from DER, 1091' left of centerline, up to 413' MSL.

Trees beginning 6023' from DER, 1156' left of centerline, up to 420' MSL.

Tree 1 NM from DER, 1808' left of centerline, 423' MSL.

Trees beginning 1 NM from DER, 1204' left of centerline, up to 425' MSL.

Trees beginning 1 NM from DER, 799' left of centerline, up to 433' MSL.

Tower, tree beginning 1 NM from DER, 191' right of centerline, up to 160' AGL/436' MSL.

Trees beginning 1 NM from DER, 691' left of centerline, up to 448' MSL.

Trees beginning 1.1 NM from DER, 1360' left of centerline, up to 453' MSL.

Tree 1.1 NM from DER, 2180' left of centerline, 456' MSL.

Trees beginning 1.1 NM from DER, 944' left of centerline, up to 457' MSL.

Trees beginning 1.1 nm from DER, 972' left of centerline, up to 466' MSL.

Trees beginning 1.1 NM from DER, 777' left of centerline, up to 469' MSL.

Tree 1.1 NM from DER, 2073' left of centerline, 473' MSL.

Trees beginning 1.1 NM from DER, 1340' left of centerline, up to 484' MSL.

Trees beginning 1.2 NM from DER, 1031' left of centerline, up to 486' MSL.

##### CON'T

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

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

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**DANIELSON, CT (CON'T)  
DANIELSON (LZD) (CON'T)**

**Rwy 13 (CON'T)**, trees beginning 1.2 NM from DER, 1339' left of centerline, up to 490' MSL.

Trees beginning 1.2 NM from DER, 275' left of centerline, up to 491' MSL.

Trees beginning 1.2 NM from DER, 38' right of centerline, up to 440' MSL.

Trees beginning 1.2 NM from DER, 165' left of centerline, up to 506' MSL.

Trees beginning 1.3 NM from DER, 40' left of centerline, up to 508' MSL.

Trees, building beginning 1.3 NM from DER, 242' left of centerline, up to 521' MSL.

Trees beginning 1.3 NM from DER, 368' right of centerline, up to 461' MSL.

Trees beginning 1.3 NM from DER, 85' right of centerline, up to 513' MSL.

Trees beginning 1.3 nm from DER, 808' left of centerline, up to 524' MSL.

Tree 1.3 NM from DER, 272' left of centerline, 525' MSL.

Trees beginning 1.3 NM from DER, on centerline, up to 534' MSL.

Tree, building beginning 1.3 NM from DER, 267' left of centerline, up to 539' MSL.

Trees beginning 1.3 NM from DER, 189' right of centerline, up to 533' MSL.

Trees beginning 1.3 nm from DER, 58' right of centerline, up to 550' MSL.

Tree 1.4 NM from DER, 182' right of centerline, 557' MSL.

Trees, building beginning 1.4 NM from DER, 105' left of centerline, up to 556' MSL.

Trees beginning 1.4 NM from DER, 337' right of centerline, up to 561' MSL.

Tree 1.4 NM from DER, 581' right of centerline, 573' MSL.

Trees beginning 1.4 NM from DER, 57' right of centerline, up to 579' MSL.

Trees beginning 1.4 NM from DER, 358' left of centerline, up to 558' MSL.

Trees, building beginning 1.4 NM from DER, 282' right of centerline, up to 587' MSL.

Trees, building beginning 1.4 NM from DER, 148' left of centerline, up to 567' MSL.

Trees beginning 1.4 NM from DER, 260' right of centerline, up to 593' MSL.

Trees beginning 1.4 NM from DER, 69' right of centerline, up to 600' MSL.

Trees, building beginning 1.4 NM from DER, 603' right of centerline, up to 608' MSL.

Trees beginning 1.4 NM from DER, 20' left of centerline, up to 580' MSL.

Trees, terrain beginning 1.5 NM from DER, 172' right of centerline, up to 609' MSL.

Trees, building beginning 1.5 NM from DER, 79' right of centerline, up to 614' MSL.

Trees, building beginning 1.5 NM from DER, 18' left of centerline, up to 589' MSL.

Trees beginning 1.5 NM from DER, 121' left of centerline, up to 590' MSL.

Trees, terrain beginning 1.5 NM from DER, 471' right of centerline, up to 617' MSL.

Tree 1.5 NM from DER, 719' right of centerline, 620' MSL.

Trees beginning 1.5 NM from DER, 282' right of centerline, up to 625' MSL.

Trees, building beginning 1.5 NM from DER, 22' left of centerline, up to 604' MSL.

Tree 1.5 NM from DER, 452' right of centerline, 629' MSL.

Trees beginning 1.5 NM from DER, 124' right of centerline, up to 630' MSL.

Trees beginning 1.5 NM from DER, 17' right of centerline, up to 633' MSL.

Trees, pole beginning 1.6 nm from DER, 444' right of centerline, up to 635' MSL.

Trees, building, terrain beginning 1.6 NM from DER, 10' right of centerline, up to 638' MSL.

Trees, terrain beginning 1.6 NM from DER, 18' right of centerline, up to 641' MSL.

Trees beginning 1.7 NM from DER, 277' right of centerline, up to 661' MSL.

**Rwy 31**, terrain 40' from DER, 477' right of centerline, 245' MSL.

Trees beginning 54' from DER, 199' left of centerline, up to 309' MSL.

Trees beginning 81' from DER, 11' left of centerline, up to 311' MSL.

Trees, terrain beginning 108' from DER, 175' right of centerline, up to 286' MSL.

Trees beginning 269' from DER, 25' right of centerline, up to 294' MSL.

Trees beginning 469' from DER, 52' right of centerline, up to 302' MSL.

Trees beginning 567' from DER, 67' right of centerline, up to 327' MSL.

Trees beginning 1884' from DER, 117' right of centerline, up to 330' MSL.

Trees beginning 2057' from DER, 9' right of centerline, up to 338' MSL.

Trees beginning 2603' from DER, 240' right of centerline, up to 339' MSL.

Tree, transmission line beginning 2659' from DER, 46' left of centerline, up to 316' MSL.

Trees beginning 2884' from DER, 539' right of centerline, up to 345' MSL.

Trees beginning 2898' from DER, 682' left of centerline, up to 319' MSL.

Trees, pole, transmission line beginning 2947' from DER, 29' right of centerline, up to 349' MSL.

Trees, transmission line, pole beginning 3013' from DER, 72' left of centerline, up to 329' MSL.

Tree 3102' from DER, 524' right of centerline, 366' MSL.

Transmission line 3135' from DER, 109' left of centerline, 82' AGL/338' MSL.

Trees beginning 3141' from DER, 469' left of centerline, up to 347' MSL.

Tree 3146' from DER, 635' right of centerline, 370' MSL.

Tree 3159' from DER, 823' right of centerline, 384' MSL.

Trees, transmission line, pole beginning 3231' from DER, 662' right of centerline, up to 399' MSL.

Tree 3264' from DER, 274' left of centerline, 363' MSL.

Trees, transmission lines, pole beginning 3290' from DER, 160' right of centerline, up to 418' MSL.

Trees beginning 3332' from DER, 67' left of centerline, up to 376' MSL.

Trees, transmission lines, terrain beginning 3466' from DER, 4' right of centerline, up to 434' MSL.

Trees beginning 3493' from DER, 169' left of centerline, up to 388' MSL.

Trees beginning 3645' from DER, 506' left of centerline, up to 390' MSL.

Trees beginning 3739' from DER, 51' left of centerline, up to 408' MSL.

Trees beginning 4057' from DER, 3' left of centerline, up to 418' MSL.

Trees, terrain beginning 4771' from DER, 317' right of centerline, up to 458' MSL.

Trees, buildings beginning 4865' from DER, 146' right of centerline, up to 461' MSL.

Trees beginning 4964' from DER, 180' left of centerline, up to 420' MSL.

**CON'T**

**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND  
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## DANIELSON, CT (CON'T)

### DANIELSON (LZD) (CON'T)

**Rwy 31 (CON'T)**, trees, terrain, poles beginning 5109' from DER, 7' right of centerline, up to 469' MSL.

Trees, buildings beginning 5280' from DER, 282' left of centerline, up to 423' MSL.

Tree 5391' from DER, 301' left of centerline, 425' MSL.

Trees beginning 5450' from DER, 14' left of centerline, up to 426' MSL.

Trees beginning 5607' from DER, 3' left of centerline, up to 432' MSL.

Tree 1.4 NM from DER, 2700' left of centerline, 464' MSL.

Trees beginning 1.4 NM from DER, 2183' left of centerline, up to 493' MSL.

Trees beginning 1.4 NM from DER, 2103' left of centerline, up to 503' MSL.

Trees beginning 1.5 NM from DER, 1800' left of centerline, up to 510' MSL.

Trees beginning 1.5 NM from DER, 1803' left of centerline, up to 518' MSL.

Trees beginning 1.5 NM from DER, 2256' left of centerline, up to 538' MSL.

Trees beginning 1.7 NM from DER, 2715' left of centerline, up to 552' MSL.

Tree 1.7 NM from DER, 1878' right of centerline, 513' MSL.

Tree 1.7 NM from DER, 2415' right of centerline, 518' MSL.

Trees beginning 1.7 NM from DER, 3132' left of centerline, up to 558' MSL.

Trees beginning 1.8 NM from DER, 2020' right of centerline, up to 525' MSL.

Tree 1.9 NM from DER, 2660' right of centerline, 531' MSL.

Tree 1.9 NM from DER, 2137' right of centerline, 574' MSL.

Trees, building beginning 2 NM from DER, 1846' right of centerline, up to 626' MSL.

Trees beginning 2.1 NM from DER, 2523' left of centerline, up to 570' MSL.

Tree 2.2 NM from DER, 3232' left of centerline, 579' MSL.

Tree 2.2 NM from DER, 3506' left of centerline, 585' MSL.

Trees beginning 2.2 NM from DER, 3519' left of centerline, up to 597' MSL.

Tree 2.3 NM from DER, 3950' left of centerline, 595' MSL.

## DEBLOIS, ME

### DEBLOIS FLIGHT STRIP (43B)

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

ORIG 01FEB18 (18032) (FAA)

DEPARTURE PROCEDURE:

**Rwy 33**, use DEBLOIS departure.

## DEXTER, ME

### DEXTER RGNL (1B0)

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

AMDT 1 05APR12 (12096) (FAA)

TAKEOFF MINIMUMS:

**Rwys 7, 25**, NA, Turf.

**Rwy 34**, 600-2½ or std. w/min. climb of 355' per NM to 1200.

DEPARTURE PROCEDURE:

**Rwy 16**, climb heading 157° to 1200 before turning northeast bound.

**Rwy 34**, climb heading 337° to 1300 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

**Rwy 16**, trees, power lines, vehicles, and buildings beginning 105' from DER, left and right of centerline, up to 100' AGL/629' MSL.

**Rwy 34**, trees beginning 53' from DER, left and right of centerline, up to 100' AGL/619' MSL.

## EASTPORT, ME

### EASTPORT MUNI (EPM)

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

ORIG 23JUN94 (94174) (FAA)

TAKEOFF MINIMUMS:

**Rwy 33**, 300-1 or std. with a min. climb of 240' per NM to 300.

## ELIOT, ME

### LITTLEBROOK AIR PARK (3B4)

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

ORIG 04SEP03 (03247) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 12**, house 118' right of DER, 23' AGL/129' MSL. Brush 200' from DER, 66' left of centerline, 16' AGL/122' MSL. Trees 345' from DER, 140' left of centerline, 71' AGL/130' MSL.

**Rwy 30**, trees 220' from DER, 125' right of centerline, 19' AGL/144' MSL.

Brush 100' right of DER, 20' AGL/159' MSL.

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## FALMOUTH, MA

### CAPE COD COAST GUARD AIR STATION (FMH)

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

ORIG-A 25FEB21 (21056) (FAA)

##### TAKEOFF OBSTACLE NOTES:

- Rwy 5**, pole 5' from DER, 8' right of centerline, 1' AGL/127' MSL.  
 Traverse way 5' from DER, 2' left of centerline, 1' AGL/127' MSL.  
 Tree 1265' from DER, 694' right of centerline, 164' MSL.  
 Trees beginning 1422' from DER, 732' right of centerline, up to 171' MSL.  
 Tree 1562' from DER, 726' left of centerline, 170' MSL.  
 Tree 1826' from DER, 258' right of centerline, 173' MSL.  
 Tree 1882' from DER, 234' left of centerline, 174' MSL.  
 Tree 2029' from DER, 261' left of centerline, 177' MSL.  
 Tree 2392' from DER, 293' right of centerline, 189' MSL.  
 Tree 2420' from DER, 268' left of centerline, 189' MSL.  
 Tree 3144' from DER, 302' left of centerline, 209' MSL.  
 Tree 3446' from DER, 393' left of centerline, 213' MSL.  
 Trees beginning 3572' from DER, 243' left of centerline, up to 221' MSL.  
 Tree 3976' from DER, 63' right of centerline, 225' MSL.  
 Tree 4078' from DER, 196' right of centerline, 228' MSL.  
**Rwy 14**, tree 1138' from DER, 749' right of centerline, 148' MSL.  
 Tree 1190' from DER, 818' left of centerline, 150' MSL.  
 Trees beginning 1333' from DER, 224' right of centerline, up to 155' MSL.  
**Rwy 23**, sign 16' from DER, 236' left of centerline, 3' AGL/111' MSL.  
 Tree 1061' from DER, 635' right of centerline, 151' MSL.  
**Rwy 32**, terrain 23' from DER, 25' left of centerline, 131' MSL.  
 Terrain beginning 45' from DER, 448' right of centerline, up to 137' MSL.  
 Terrain 264' from DER, 543' right of centerline, 138' MSL.  
 Tree 1947' from DER, 373' right of centerline, 180' MSL.  
 Tree 1973' from DER, 300' right of centerline, 184' MSL.  
 Tree 2021' from DER, 560' right of centerline, 185' MSL.  
 Tree 2061' from DER, 724' right of centerline, 189' MSL.

## FITCHBURG, MA

### FITCHBURG MUNI (FIT)

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

AMDT 6 22APR21 (21112) (FAA)

##### TAKEOFF MINIMUMS:

- Rwys 2, 14, 20**, NA - Obstacles.  
**Rwy 32**, std. w/min. climb of 360' per NM to 2600 or 1900-3 for VCOA.

##### DEPARTURE PROCEDURE:

- Rwy 32**, climb on heading 325° to 1100 before proceeding on course.

##### VCOA:

- Rwy 32**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Fitchburg Muni airport at or above 2100 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

- Rwy 32**, vegetation 8' from DER, 197' right of centerline, 349' MSL.  
 Trees, vegetation, building beginning 33' from DER, 17' right of centerline, up to 438' MSL.  
 Trees beginning 2128' from DER, 28' right of centerline, up to 59' AGL/441' MSL.  
 Trees beginning 2816' from DER, 164' left of centerline, up to 65' AGL/444' MSL.  
 Trees, stack beginning 3368' from DER, 152' right of centerline, up to 449' MSL.  
 Building 3757' from DER, 192' left of centerline, 92' AGL/465' MSL.  
 Trees beginning 4464' from DER, 29' right of centerline, up to 518' MSL.  
 Trees, pole beginning 5505' from DER, 95' left of centerline, up to 589' MSL.  
 Trees beginning 1.2 NM from DER, 640' left of centerline, up to 685' MSL.  
 Trees, building beginning 1.6 NM from DER, 506' left of centerline, up to 52' AGL/691' MSL.  
 Trees beginning 1.6 NM from DER, 1' right of centerline, up to 721' MSL.  
 Tree 2 NM from DER, 3238' left of centerline, 790' MSL.  
 Tree 2.3 NM from DER, 1717' left of centerline, 836' MSL.  
 Antenna, pole, trees beginning 2.3 NM from DER, 1296' left of centerline, up to 134' AGL/954' MSL.

## FRENCHVILLE, ME

### NORTHERN AROOSTOOK RGNL (FVE)

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

ORIG 25OCT07 (07298) (FAA)

##### TAKEOFF MINIMUMS:

- Rwy 32**, 300-1¼ or std. w/min. climb of 503' per NM to 1300.

##### TAKEOFF OBSTACLE NOTES:

- Rwy 14**, trees beginning 101' from DER, 348' right of centerline, up to 80' AGL/1079' MSL.  
**Rwy 32**, trees beginning 3128' from DER, 952' left of centerline, up to 80' AGL/1179' MSL.  
 Trees beginning 1608' from DER, 433' right of centerline, up to 80' AGL/1119' MSL.

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## FRYEBURG, ME

### EASTERN SLOPES RGNL (IZG)

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

AMDT 4A 11MAR10 (10070) (FAA)

#### TAKEOFF MINIMUMS:

**Rwy 14**, std. with a min. climb of 310' per NM to 2100, or 1600-3 for climb in visual conditions.

**Rwy 32**, 2200-2 with a min. climb of 471' per NM to 6600.

#### DEPARTURE PROCEDURE:

**Rwy 14**, climb heading 143° to 3000 before turning. For climb in visual conditions cross Eastern Slopes Rgnl airport at or above 3800 before proceeding on course.

**Rwy 32**, for climb in visual conditions cross Eastern Slopes Rgnl airport at or above 3800 before proceeding on course.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 32**, tree 454' from DER, 558' left of centerline, 100' AGL/579' MSL.

Trees beginning 1249' from DER, 734' right of centerline, up to 100' AGL/659' MSL.

Trees and tower beginning 1.1 NM from DER, 2155' left of centerline, up to 100' AGL/1139' MSL.

## GARDNER, MA

### GARDNER MUNI (GDM)

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

AMDT 3 10JAN13 (13010) (FAA)

#### TAKEOFF MINIMUMS:

**Rwys 18, 36**, 1000-2½ for climb in visual conditions.

#### DEPARTURE PROCEDURE:

**Rwys 18, 36**, for climb in visual conditions, cross Gardner Muni airport at or above 1900 before proceeding on course. When executing VCOA, notify ATC prior to departure.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 18**, trees beginning 3' from DER, 470' right of centerline, up to 100' AGL/1183' MSL.

Trees beginning 58' from DER, 172' left of centerline, up to 100' AGL/1183' MSL.

Trees beginning 1.0 NM from DER, 1579' left of centerline, up to 100' AGL/1229' MSL.

Trees beginning 1.3 NM from DER, 2535' right of centerline, up to 100' AGL/1163' MSL.

**Rwy 36**, trees beginning 130' from DER, 260' right of centerline, up to 100' AGL/1091' MSL.

Trees beginning 159' from DER, 436' left of centerline, up to 100' AGL/1104' MSL.

## GREAT BARRINGTON, MA

### WALTER J KOLADZA (GBR)

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

AMDT 3 02MAY13 (13122) (FAA)

#### TAKEOFF MINIMUMS:

**Rwy 11**, std. w/ min. climb of 570' per NM to 2500' or 2300-3 for climb in visual conditions.

**Rwy 29**, std. w/ min. climb of 405' per NM to 2600' or 2300-3 for climb in visual conditions.

#### DEPARTURE PROCEDURE:

**Rwy 11**, climb heading 110° to 2500 before proceeding on course or for climb in visual conditions: cross Walter J. Koladza airport at or above 2900 MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.

**Rwy 29**, climb heading 290° to 2600 before proceeding on course or for climb in visual conditions: cross Walter J. Koladza airport at or above 2900 MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 11**, vehicles beginning 5' from DER, from 253' left to 531' right of centerline, up to 15' AGL/740' MSL.

Trees beginning 55' from DER, from 282' left of centerline to 898' left of centerline, up to 100' AGL/ 854' MSL.

Trees beginning 505' from DER, 496' right of centerline, up to 100' AGL/ 854' MSL.

Trees beginning 1337' from DER, 91' right of centerline, up to 100' AGL/ 874' MSL.

Vehicles beginning at 1635' from DER, from 951' left to 926' right of centerline, up to 15' AGL/ 740' MSL.

**Rwy 29**, vehicles beginning 16' from DER, 471' left of centerline to 1815' right of centerline, up to 15' AGL/ 864' MSL.

Trees beginning 19' from DER, from 249' to 1532' right of centerline, up to 100' AGL/ 844' MSL.

Trees beginning 19' from DER, from 495' to 2608' left of centerline, up to 100' AGL/ 844' MSL.

Trees beginning 496' from DER, 495' left of centerline, up to 100' AGL/844' MSL.

Trees beginning 250' from DER, 249' right of centerline, up to 100' AGL/844' MSL.

Trees beginning 429' from DER, 17' left of centerline, up to 100' AGL/ 834' MSL.

Vehicles beginning at 1562' from DER, from 897' left to 826' right of centerline, up to 15' AGL/759' MSL.

Trees beginning 1650' from DER, 154' right of centerline, up to 100' AGL/844' MSL.

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## GREENVILLE, ME

### GREENVILLE MUNI (3B1)

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

AMDT 3 17JUN21 (21168) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 3**, 900-2½ w/min. climb of 340' per NM to 3800, or 2000-3 for VCOA.

**Rwy 14**, std. w/min. climb of 300' per NM to 3500, or 2000-3 for VCOA.

**Rwy 21**, 300-1 w/min. climb of 330' per NM to 3600, or 2000-3 for VCOA.

**Rwy 32**, std. w/min. climb of 430' per NM to 4200, or 2000-3 for VCOA.

##### DEPARTURE PROCEDURE:

**Rwy 3**, climb on heading 027° to 4000 before proceeding on course.

**Rwy 14**, climb on heading 135° to 3000 before proceeding on course.

**Rwy 32**, climb on heading 315° to 2300 before proceeding on course.

##### VCOA:

All runways, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Greenville Muni airport at or above 3300 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 3**, vehicles on road 293' from DER, across centerline, 15' AGL/1415' MSL.

Trees beginning 1.3 NM from DER, 1611' left of centerline, up to 1620' MSL.

Trees beginning 1.4 NM from DER, 1279' left of centerline, up to 1689' MSL.

Trees beginning 1.4 NM from DER, 1230' left of centerline, up to 1699' MSL.

Tree 1.5 NM from DER, 1977' left of centerline, 1760' MSL.

Trees beginning 1.5 NM from DER, 1569' left of centerline, up to 1785' MSL.

Trees beginning 1.6 NM from DER, 2067' left of centerline, up to 1839' MSL.

Tree 1.6 NM from DER, 2646' left of centerline, 1863' MSL.

Tree 1.7 NM from DER, 1548' left of centerline, 1867' MSL.

Trees beginning 1.7 NM from DER, 793' left of centerline, up to 1887' MSL.

Trees beginning 1.8 NM from DER, 345' left of centerline, up to 1946' MSL.

Trees beginning 1.8 NM from DER, 465' left of centerline, up to 1965' MSL.

Trees beginning 1.9 NM from DER, 1005' left of centerline, up to 2022' MSL.

Trees beginning 1.9 NM from DER, 303' right of centerline, up to 1762' MSL.

Trees beginning 2 NM from DER, 349' left of centerline, up to 2059' MSL.

Tree 2 NM from DER, 1336' left of centerline, 2125' MSL.

Tree beginning 2 NM from DER, 29' left of centerline, up to 100' AGL/2174' MSL.

Tree 2.1 NM from DER, 464' right of centerline, 1862' MSL.

Tree 2.1 NM from DER, 1189' left of centerline, 100' AGL/2213' MSL.

Tree 2.2 NM from DER, 227' left of centerline, 100' AGL/1980' MSL.

**Rwy 14**, trees beginning 909' from DER, 3' right of centerline, up to 100' AGL/1508' MSL.

Trees beginning 1428' from DER, 76' right of centerline, up to 100' AGL/1511' MSL.

**Rwy 21**, trees beginning 801' from DER, 699' left of centerline, 100' AGL/1541' MSL.

Trees beginning 836' from DER, 3' left of centerline, up to 100' AGL/1551' MSL.

Trees beginning 1136' from DER, 537' left of centerline, up to 100' AGL/1534' MSL.

**Rwy 32**, vehicles on road 43' from DER, 488' right of centerline, 1394' MSL.

Trees beginning 62' from DER, 337' left of centerline, up to 1423' MSL.

Tower 70' from DER, 337' right of centerline, 42' AGL/1422' MSL.

Tree 135' from DER, 533' right of centerline, 1427' MSL.

Tree, vehicles on road beginning 178' from DER, 316' right of centerline, up to 1437' MSL.

Trees beginning 185' from DER, 348' left of centerline, up to 1428' MSL.

## MOOSEHEAD AERO MARINE (52B)

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

AMDT 3 24JUL14 (21112) (FAA)

##### TAKEOFF MINIMUMS:

**Sea Lane 14**, std. w/min. climb of 849' per NM to 2200 or 500-2½ w/min. climb of 280' per NM to 2600 or 3900-3 for climb in visual conditions.

**Sea Lane 18**, std. w/min. climb of 370' per NM to 2800 or 3900-3 for climb in visual conditions.

**Sea Lane 32**, std. w/min. climb of 685' per NM to 2500 or 700-1½ w/min. climb of 300' per NM to 4000 or 3900-3 for climb in visual conditions.

**Sea Lane 36**, std. w/min. climb of 270' per NM to 3300 or 3900-3 for climb in visual conditions.

##### DEPARTURE PROCEDURE:

**Sea Lane 14**, climb on heading 140° to 3300 before proceeding on course or for climb in visual conditions: cross Moosehead Aero Marine at or above 3800 MSL before proceeding on course.

**Sea Lane 18**, climb heading 180° to 2800 before proceeding on course or for climb in visual conditions: cross Moosehead Aero Marine at or above 3800 MSL before proceeding on course.

**Sea Lane 32**, climb on heading 335° to 4000 before proceeding on course or for climb in visual conditions: cross Moosehead Aero Marine at or above 3800 MSL before proceeding on course.

**Sea Lane 36**, climb heading 360° to 3600 before proceeding on course or for climb in visual conditions: cross Moosehead Aero Marine at or above 3800 MSL before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

**Sea Lane 14**, trees beginning 4116' prior to DER, 296' left of centerline, up to 80' AGL/1119' MSL.

Trees beginning 3063' prior to DER, 191' right of centerline, up to 80' AGL/1159' MSL.

Boats beginning at DER, from 500' left to 500' right of centerline, up to 20' AGL/1048' MSL.

Trees beginning 2' from DER, 167' left of centerline, up to 80' AGL/1179' MSL.

**Sea Lane 18**, trees beginning 2274' prior to DER, 370' left of centerline, up to 80' AGL/1119' MSL.

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## GREENVILLE, ME (CON'T)

### MOOSEHEAD AERO MARINE (52B) (CON'T)

- Sea Lane 18 (CON'T)**, boats beginning at DER, from 500' left to 500' right of centerline, up to 20' AGL/1048' MSL.  
Trees beginning 711' from DER, 621' right of centerline, up to 80' AGL/1179' MSL.  
Trees beginning 1212' from DER, 783' left of centerline, up to 80' AGL/1139' MSL.
- Sea Lane 32**, trees beginning 3390' prior to DER, 191' left of centerline, up to 80' AGL/1159' MSL.  
Trees beginning 2976' prior to DER, 296' right of centerline, up to 80' AGL/1119' MSL.  
Boats beginning at DER, from 500' left to 500' right of centerline, up to 20' AGL/1048' MSL.  
Trees beginning 2328' from DER, 1082' right of centerline, up to 80' AGL/1179' MSL.
- Sea Lane 36**, trees beginning 2755' prior to DER, 370' right of centerline, up to 80' AGL/1119' MSL.  
Trees beginning 571' prior to DER, 290' left of centerline, up to 80' AGL/1119' MSL.  
Boats beginning at DER, from 500' left to 500' right of centerline, up to 20' AGL/1048' MSL.  
Trees beginning 694' from DER, 381' left of centerline, up to 80' AGL/1179' MSL.  
Trees beginning 2440' from DER, 650' right of centerline, up to 80' AGL/1119' MSL.

## GROTON (NEW LONDON), CT

### GROTON-NEW LONDON (GON)

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

AMDT 8 09FEB12 (12040) (FAA)

##### TAKEOFF MINIMUMS:

- Rwy 5**, 300-2 or std. w/min. climb gradient of 260' per NM to 400.  
**Rwy 15**, 300-1 or std. w/min. climb gradient of 425' per NM to 300.  
**Rwy 33**, 300-1½ or std. w/min. climb of 380' per NM to 300.

##### DEPARTURE PROCEDURE:

**Rwy 33**, climb on GON VOR/DME R-335 to 2000 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

- Rwy 23**, bush 570' from DER, 490' right of centerline, 12' AGL/21' MSL.  
Tree 2770' from DER, 700' left of centerline, 50' AGL/76' MSL.  
**Rwy 5**, REIL 74' from DER, 151' left of centerline, 3' AGL/9' MSL.  
Fence beginning 186' from DER, 186' right of centerline, up to 7' AGL/18' MSL.  
Vehicle on road 215' from DER, 501' left of centerline, 15' AGL/30' MSL.  
Multiple poles beginning 205' from DER, 474' left of centerline, up to 30' AGL/52' MSL.  
Multiple trees beginning 416' from DER, right and left of centerline, up to 80' AGL/94' MSL.  
Multiple trees beginning 6918' from DER, right and left of centerline, up to 80' AGL/286' MSL.
- Rwy 15**, bush 54' from DER, 238' right of centerline, 4' AGL/11' MSL.  
Trees beginning 1703' from DER, right and left of centerline, up to 81' AGL/153' MSL.
- Rwy 33**, multiple trees beginning 106' from DER, left and right of centerline, up to 50' AGL/219' MSL.  
Multiple poles beginning 163' from DER, right and left of centerline, up to 20' AGL/48' MSL.  
Railroad 201' from DER, 163' left of centerline, 15' AGL/32' MSL.  
Multiple poles beginning 4279' from DER, 235' left of centerline, up to 100' AGL/207' MSL.  
Tank 5144' from DER, 926' left of centerline, 88' AGL/225' MSL.

## HARTFORD, CT

### HARTFORD-BRAINARD (HFD)

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

AMDT 6 20JUN19 (19171) (FAA)

##### TAKEOFF MINIMUMS:

- Rwys 11, 29**, NA - Environmental.  
**Rwy 20**, 200-1½ or std. w/min. climb of 220' per NM to 300, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1500' prior to DER.

##### DEPARTURE PROCEDURE:

- Rwy 2**, climb heading 024° to 900 before turning left.  
**Rwy 20**, climbing left turn heading 175° to 1300 before turning right.

##### TAKEOFF OBSTACLE NOTES:

- Rwy 2**, dam and trees beginning 57' from DER, on centerline, up to 94' AGL/101' MSL.  
Building 376' from DER, 593' left of centerline, 26' AGL/57' MSL.  
Vegetation and trees beginning 765' from DER, 72' left of centerline, up to 50' AGL/84' MSL.  
Tree 1073' from DER, 172' left of centerline, 93' AGL/98' MSL.  
Tree 1483' from DER, 594' left of centerline, 95' AGL/124' MSL.  
Building and trees beginning 2047' from DER, 476' right of centerline, up to 79' AGL/119' MSL.  
Tree 2386' from DER, 47' right of centerline, 96' AGL/124' MSL.  
Building and trees beginning 2418' from DER, 416' right of centerline, up to 87' AGL/125' MSL.  
Tree 2458' from DER, 59' left of centerline, 116' AGL/133' MSL.  
Tree 2544' from DER, 193' left of centerline, 122' AGL/134' MSL.
- Rwy 20**, poles beginning 196' from DER, 400' right of centerline, up to 12' AGL/42' MSL.  
Tree 365' from DER, 423' left of centerline, 49' AGL/85' MSL.  
Dam, vegetation, and trees beginning 582' from DER, 52' left of centerline, up to 62' AGL/89' MSL.  
Building 649' from DER, 665' right of centerline, 45' AGL/58' MSL.  
Trees beginning 798' from DER, 395' right of centerline, up to 23' AGL/65' MSL.  
Tree 1137' from DER, 228' right of centerline, 37' AGL/85' MSL.  
Tree 1292' from DER, 494' right of centerline, 59' AGL/103' MSL.  
Trees beginning 1322' from DER, 207' right of centerline, up to 67' AGL/119' MSL.  
Tree 1836' from DER, 172' left of centerline, 97' AGL/97' MSL.

##### CON'T

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

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

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## HARTFORD, CT (CON'T)

### HARTFORD-BRAINARD (HFD) (CON'T)

**Rwy 20 (CON'T)**, trees beginning 2505' from DER, 28' right of centerline, up to 119' AGL/138' MSL.

Tree 3953' from DER, 200' left of centerline, 50' AGL/119' MSL.

Tree 4639' from DER, 136' right of centerline, 69' AGL/142' MSL.

Spire 1.1 NM from DER, 431' left of centerline, 150' AGL/195' MSL.

## HAVERHILL, NH

### DEAN MEML (5B9)

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

AMDT 1 17JUN21 (21168) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 19**, NA-Terrain.

**Rwy 1**, std. w/min. climb of 355' per NM to 1500, or 1300-3 for VCOA.

##### DEPARTURE PROCEDURE:

**Rwy 1**, climb on heading 353° to intercept MPV VOR/DME R-088 westbound to 4700 before proceeding on course.

##### VCOA:

**Rwy 1**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Dean Meml airport heading 353° at or above 1500 to intercept MPV VOR/DME R-088 westbound to 4700 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 1**, vehicles on road 22' from DER, 439' right of centerline, 15' AGL/555' MSL.

Transmission lines beginning 176' from DER, 178' right of centerline, up to 37' AGL/582' MSL.

Buildings 279' from DER, 291' left of centerline, 24' AGL/563' MSL.

Transmission lines 417' from DER, 151' left of centerline, 37' AGL/573' MSL.

Trees beginning 868' from DER, 329' right of centerline, up to 100' AGL/640' MSL.

## HIGHGATE, VT

### FRANKLIN COUNTY STATE (FSO)

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

AMDT 1 30JUN11 (11181) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 19**, 500-2½ or std. w/min. climb of 316' per NM to 800.

##### DEPARTURE PROCEDURE:

**Rwy 19**, climbing right turn heading 240° to 1700 before turning east.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 1**, vehicles on road beginning at DER, 459' left of centerline, up to 15' AGL/234' MSL.

Trees beginning 182' from DER, 47' right of centerline, up to 100' AGL/359' MSL.

Trees beginning 454' from DER, 20' left of centerline, up to 100' AGL/289' MSL.

**Rwy 19**, vehicles on road beginning 1' from DER, 240' right of centerline, up to 15' AGL/240' MSL.

Trees beginning 215' from DER, 313' right of centerline, up to 90' AGL/309' MSL.

Trees beginning 628' from DER, 660' left of centerline, up to 62' AGL/281' MSL.

Pole 688' from DER, 656' left of centerline, 43' AGL/262' MSL.

Catenary 1299' from DER, 734' left of centerline, 44' AGL/263' MSL.

## HOPEDALE, MA

### HOPEDALE INDUSTRIAL PARK (1B6)

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

AMDT 2 07DEC95 (95341) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 18**, 300-1 or std. with a min. climb of 320' per NM to 900.

**Rwy 36**, 600-1 or std. with a min. climb of 280' per NM to 1100.

##### DEPARTURE PROCEDURE:

**Rwy 18**, climb runway heading to 900 before turning on course.

**Rwy 36**, climb runway heading to 1100 before turning on course.

## HOULTON, ME

### HOULTON INTL (HUL)

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

AMDT 3 25FEB21 (21056) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 1**, 300-1½ or std. w/ min. climb of 385' per NM to 800.

**Rwy 5**, 400-2 or std. w/ min. climb of 355' per NM to 900.

**Rwy 19**, 400-2½ w/ min. climb of 225' per NM to 1100 or 1100-2½ for VCOA.

**Rwy 23**, 300-1½ or std. w/ min. climb of 315' per NM to 900.

##### DEPARTURE PROCEDURE:

**Rwy 1**, climb on heading 010° to 1000 before turning right.

**Rwy 5**, climb on heading 049° to 1200 before turning right.

**Rwy 19**, climb on heading 190° to 1100 before turning left.

**Rwy 23**, climb on heading 229° to 1000 before turning left.

##### CON'T

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

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

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## HOULTON, ME (CON'T) HOULTON INTL (HUL) (CON'T)

VCOA:

**Rwy 19**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Houlton Intl Airport at or above 1400 before proceeding on course.

## TAKEOFF OBSTACLE NOTES:

**Rwy 1**, trees and poles beginning 166' from DER, 34' right of centerline, up to 564' MSL.  
Vehicles on road 487' from DER, left and right of centerline, 15' AGL/514' MSL.  
Poles beginning 700' from DER, 105' left of centerline, up to 34' AGL/512' MSL.  
Tree 2706' from DER, 516' left of centerline, 74' AGL/597' MSL.  
Tree 3455' from DER, 970' left of centerline, 643' MSL.  
Tree 3928' from DER, 410' left of centerline, 657' MSL.  
Trees beginning 4441' from DER, 61' right of centerline, up to 658' MSL.  
Tree 4497' from DER, 661' left of centerline, 688' MSL.  
Trees beginning 4537' from DER, 731' left of centerline, up to 692' MSL.  
Trees beginning 5553' from DER, 270' right of centerline, up to 687' MSL.  
Tree 1.1 NM from DER, 165' right of centerline, 648' MSL.  
**Rwy 5**, sign 25' from DER, 113' left of centerline, 491' MSL.  
Sign 25' from DER, 111' right of centerline, 491' MSL.  
Terrain 35' from DER, 384' right of centerline, 497' MSL.  
Trees beginning 80' from DER, 253' left of centerline, up to 500' MSL.  
Terrain 89' from DER, 495' right of centerline, 498' MSL.  
Trees and terrain beginning 110' from DER, 146' right of centerline, up to 19' AGL/510' MSL.  
Trees and terrain beginning 266' from DER, 115' right of centerline, up to 527' MSL.  
Trees and traverse ways beginning 646' from DER, 168' right of centerline, up to 567' MSL.  
Trees beginning 769' from DER, 451' left of centerline, up to 523' MSL.  
Trees beginning 872' from DER, 194' left of centerline, up to 524' MSL.  
Trees beginning 915' from DER, 47' left of centerline, up to 55' AGL/532' MSL.  
Trees, traverse way beginning 1070' from DER, 150' right of centerline, up to 571' MSL.  
Trees, building, traverse way, and electrical system beginning 1175' from DER, 120' right of centerline, up to 592' MSL.  
Trees beginning 1577' from DER, 248' right of centerline, up to 602' MSL.  
Trees, pole, and terrain beginning 1800' from DER, 148' right of centerline, up to 618' MSL.  
Pole 2028' from DER, 116' left of centerline, 84' AGL/547' MSL.  
Pole 2316' from DER, 229' left of centerline, 85' AGL/549' MSL.  
Trees and terrain beginning 2347' from DER, 443' right of centerline, up to 620' MSL.  
Trees, terrain, traverse ways, and pole beginning 2606' from DER, 280' right of centerline, up to 636' MSL.  
Tree 3056' from DER, 759' left of centerline, 566' MSL.  
Tree 3399' from DER, 483' left of centerline, 87' AGL/575' MSL.  
Trees beginning 4464' from DER, 1240' right of centerline, up to 660' MSL.  
Trees beginning 4593' from DER, 1155' right of centerline, up to 664' MSL.  
Trees beginning 5147' from DER, 1511' right of centerline, up to 685' MSL.  
Trees and traverse way beginning 5253' from DER, 1386' right of centerline, up to 686' MSL.  
Trees beginning 5480' from DER, 1409' right of centerline, up to 692' MSL.  
Pole and tree beginning 5828' from DER, 1749' right of centerline, up to 696' MSL.  
Trees beginning 5865' from DER, 1586' right of centerline, up to 697' MSL.  
Trees beginning 5934' from DER, 1462' right of centerline, up to 712' MSL.  
Trees beginning 6070' from DER, 1386' right of centerline, up to 713' MSL.  
Pole, trees, terrain, and building beginning 1 NM from DER, 1343' right of centerline, up to 765' MSL.  
Trees and terrain beginning 1.1 NM from DER, 1333' right of centerline, up to 788' MSL.  
Trees and terrain beginning 1.2 NM from DER, 1464' right of centerline, up to 800' MSL.  
**Rwy 19**, sign and terrain beginning 19' from DER, 300' left of centerline, up to 481' MSL.  
Tree 31' from DER, 405' right of centerline, 508' MSL.  
Trees beginning 149' from DER, 281' right of centerline, up to 517' MSL.  
Terrain 445' from DER, 471' left of centerline, 485' MSL.  
Fence 641' from DER, 500' left of centerline, 492' MSL.  
Traverse way 764' from DER, 605' left of centerline, 15' AGL/504' MSL.  
Traverse ways beginning 903' from DER, 600' left of centerline, up to 15' AGL/506' MSL.  
Tree 2407' from DER, 501' right of centerline, 544' MSL.  
Trees beginning 2423' from DER, 413' right of centerline, up to 548' MSL.  
Trees beginning 2424' from DER, 347' left of centerline, up to 582' MSL.  
Trees beginning 2898' from DER, 133' right of centerline, up to 75' AGL/562' MSL.  
Tree 3223' from DER, 468' left of centerline, 626' MSL.  
Tree 3358' from DER, 1015' left of centerline, 673' MSL.  
Trees beginning 3838' from DER, 273' left of centerline, up to 703' MSL.  
Trees beginning 4177' from DER, 1150' left of centerline, up to 760' MSL.  
Trees beginning 4469' from DER, 133' left of centerline, up to 72' AGL/829' MSL.  
Tree 5117' from DER, 36' right of centerline, 608' MSL.  
Tree 1 NM from DER, 13' right of centerline, 641' MSL.  
Trees beginning 1.6 NM from DER, 2274' right of centerline, up to 772' MSL.  
Tree 1.7 NM from DER, 2831' right of centerline, 792' MSL.  
Tree 1.8 NM from DER, 2939' right of centerline, 794' MSL.  
Trees beginning 1.9 NM from DER, 1822' right of centerline, up to 77' AGL/798' MSL.  
Trees beginning 2 NM from DER, 1571' right of centerline, up to 823' MSL.  
Trees beginning 2.1 NM from DER, 1607' right of centerline, up to 75' AGL/873' MSL.  
Trees beginning 2.2 NM from DER, 2186' right of centerline, up to 61' AGL/880' MSL.

CON'T

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

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

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## HOULTON, ME (CON'T)

### HOULTON INTL (HUL) (CON'T)

**Rwy 19 (CON'T)**, tree 2.4 NM from DER, 4335' left of centerline, 851' MSL.  
Tree 2.5 NM from DER, 2356' left of centerline, 875' MSL.

**Rwy 23**, electrical system 54' from DER, 210' left of centerline, 485' MSL.  
Trees beginning 132' from DER, 486' left of centerline, up to 512' MSL.  
Trees beginning 264' from DER, 267' left of centerline, up to 522' MSL.  
Tree 639' from DER, 449' right of centerline, 501' MSL.  
Trees beginning 644' from DER, 110' right of centerline, up to 565' MSL.  
Trees beginning 651' from DER, 372' left of centerline, up to 526' MSL.  
Trees beginning 721' from DER, 2' left of centerline, up to 544' MSL.  
Trees and terrain beginning 883' from DER, 1' right of centerline, up to 569' MSL.  
Trees and terrain beginning 1230' from DER, on centerline, up to 594' MSL.  
Trees beginning 1270' from DER, 1' left of centerline, up to 558' MSL.  
Trees beginning 1536' from DER, 5' right of centerline, up to 601' MSL.  
Trees beginning 1725' from DER, 7' right of centerline, up to 606' MSL.  
Trees and poles beginning 1740' from DER, 3' left of centerline, up to 572' MSL.  
Trees, antenna, buildings, tank, stack, poles beginning 2253' from DER, 1' right of centerline, up to 622' MSL.  
Trees and poles beginning 2561' from DER, 1' left of centerline, up to 67' AGL/585' MSL.  
Trees beginning 3318' from DER, 1' left of centerline, up to 70' AGL/602' MSL.  
Tree 4535' from DER, 680' left of centerline, 605' MSL.  
Tree 4892' from DER, 1324' left of centerline, 609' MSL.  
Trees beginning 4914' from DER, 1105' left of centerline, up to 610' MSL.  
Tree 4986' from DER, 1198' left of centerline, 612' MSL.  
Tree 5002' from DER, 1311' left of centerline, 619' MSL.  
Trees beginning 5010' from DER, 1018' left of centerline, up to 621' MSL.  
Trees beginning 5070' from DER, 1043' left of centerline, up to 629' MSL.  
Trees beginning 5145' from DER, 1153' left of centerline, up to 634' MSL.  
Trees beginning 5251' from DER, 975' left of centerline, up to 644' MSL.  
Trees beginning 5356' from DER, 1019' left of centerline, up to 647' MSL.  
Trees beginning 5609' from DER, 950' left of centerline, up to 663' MSL.  
Trees beginning 5728' from DER, 1386' left of centerline, up to 674' MSL.  
Trees beginning 5917' from DER, 1819' left of centerline, up to 690' MSL.  
Trees beginning 5972' from DER, 1160' left of centerline, up to 691' MSL.  
Trees beginning 1 NM from DER, 1562' left of centerline, up to 729' MSL.  
Trees beginning 1.1 NM from DER, 1541' left of centerline, up to 759' MSL.

## HYANNIS, MA

### CAPE COD GATEWAY (HYA)

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

AMDT 3A 25SEP08 (20366) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 33**, 300-1 or std. w/ min. climb of 354' per NM to 300.

##### DEPARTURE PROCEDURE:

**Rwys 24,33**, climb runway heading to 700 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 33**, pole 3961' from DER, 1531' right of centerline, 97' AGL/235' MSL.

## JACKMAN, ME

### NEWTON FLD (59B)

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

ORIG 15AUG19 (21224) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 13**, std. w/min. climb of 340' per NM to 2600 or 2500-3 for VCOA.

**Rwy 31**, std. w/min. climb of 400' per NM to 2600 or 2500-3 for VCOA.

##### DEPARTURE PROCEDURE:

**Rwy 13**, climb heading 112° to 2800 before turning right.

**Rwy 31**, climb heading 292° to 2800 before turning right.

##### VCOA:

**All runways**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Newton Fld airport at or above 3500 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 13**, lighting 8' from DER, 59' left of centerline, 1177' MSL.

Lighting 9' from DER, 59' right of centerline, 1178' MSL.

Tree, vegetation beginning 9' from DER, 173' left of centerline, up to 1188' MSL.

Tree, vegetation, terrain beginning 25' from DER, 116' right of centerline, up to 1193' MSL.

Tree, vegetation beginning 55' from DER, 114' left of centerline, up to 1259' MSL.

Tree 381' from DER, 506' right of centerline, 1236' MSL.

Trees beginning 543' from DER, 546' right of centerline, up to 1238' MSL.

Trees beginning 877' from DER, 459' right of centerline, up to 1256' MSL.

Trees beginning 2220' from DER, 17' right of centerline, up to 1257' MSL.

Trees beginning 2301' from DER, 5' left of centerline, up to 1261' MSL.

Trees beginning 2336' from DER, 22' right of centerline, up to 1273' MSL.

##### CON'T

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

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

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## JACKMAN, ME (CON'T)

### NEWTON FLD (59B) (CON'T)

- Rwy 13 (CON'T)**, tree 2829' from DER, 664' right of centerline, 1278' MSL.  
Trees beginning 2925' from DER, 384' right of centerline, up to 1284' MSL.  
**Rwy 31**, vegetation 2' from DER, 59' left of centerline, 1181' MSL.  
Electrical system, vegetation, traverse way beginning 15' from DER, 154' left of centerline, up to 1208' MSL.  
Tree, traverse way beginning 43' from DER, 113' right of centerline, up to 1232' MSL.  
Tree, traverse way beginning 241' from DER, 0' left of centerline, up to 1211' MSL.  
Tree, traverse way, pole beginning 495' from DER, 234' left of centerline, up to 1234' MSL.  
Trees beginning 679' from DER, 177' left of centerline, up to 1248' MSL.  
Trees beginning 731' from DER, 155' right of centerline, up to 1239' MSL.  
Trees beginning 794' from DER, 318' left of centerline, up to 1250' MSL.  
Trees beginning 861' from DER, 14' right of centerline, up to 1245' MSL.  
Trees beginning 868' from DER, 5' left of centerline, up to 1257' MSL.  
Trees beginning 989' from DER, 9' right of centerline, up to 1251' MSL.  
Trees beginning 1070' from DER, 10' left of centerline, up to 1263' MSL.  
Tree, pole, electrical system beginning 1427' from DER, 7' left of centerline, up to 1276' MSL.  
Trees beginning 2425' from DER, 20' right of centerline, up to 1252' MSL.  
Tree 3945' from DER, 1354' right of centerline, 1282' MSL.  
Tree 5464' from DER, 1854' left of centerline, 1323' MSL.

## JAFFREY, NH

### JAFFREY/SILVER RANCH (AFN)

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

AMDT 1 29MAY14 (21112) (FAA)

##### TAKEOFF MINIMUMS:

**Rwys 16, 34**, 1000-2½ for climb in visual conditions.

##### DEPARTURE PROCEDURE:

**Rwys 16, 34**, for climb in visual conditions: cross Jaffrey/Silver Ranch at or above 1900, then via the GDM VOR/DME R-023 to GDM. When executing VCOA, notify ATC prior to departure.

##### TAKEOFF OBSTACLE NOTES:

- Rwy 16**, trees beginning 126' from DER, 140' left of centerline, up to 100' AGL/1209' MSL.  
Trees beginning 189' from DER, 120' right of centerline, up to 100' AGL/1520' MSL.  
**Rwy 34**, trees beginning 8263' from DER, 613' left of centerline, up to 100' AGL/1441' MSL.  
Trees beginning 13' from DER, 69' right of centerline, up to 100' AGL/1322' MSL.

## KEENE, NH

### DILLANT-HOPKINS (EEN)

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

AMDT 6 17JUN21 (21168) (FAA)

##### TAKEOFF MINIMUMS:

- Rwy 2**, std. w/min. climb of 360' per NM to 2100 or 2800-3 for VCOA.  
**Rwy 14**, 900-3 w/min. climb of 450' per NM to 4000 or 2800-3 for VCOA.  
**Rwy 20**, 300-1 w/min. climb of 340' per NM to 4300 or 2800-3 for VCOA.  
**Rwy 32**, 700-2½ w/min. climb of 280' per NM to 2700 or 2800-3 for VCOA.

##### DEPARTURE PROCEDURE:

- Rwy 2**, climbing left turn heading 353° to 2100 before proceeding on course.  
**Rwy 14**, climb on heading 142° to 4200 before proceeding on course.  
**Rwy 20**, climb on heading 198° to 2000 before turning left.  
**Rwy 32**, climbing right turn heading 350° to 2100 before proceeding on course.

##### VCOA:

**Rwys 2, 14, 20, 32**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Dillant-Hopkins airport at or above 3100 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

- Rwy 2**, bushes, beginning 472' from DER, 75' right of centerline, up to 88' AGL/582' MSL.  
Trees beginning 603' from DER, 57' right of centerline, up to 93' AGL/586' MSL.  
Pole 1062' from DER, 23' right of centerline, up to 53' AGL/545' MSL.  
Trees beginning 1097' from DER, 182' left of centerline, up to 69' AGL/559' MSL.  
Trees beginning 1576' from DER, 10' left of centerline, up to 109' AGL/593' MSL.  
Trees beginning 1774' from DER, left and right of centerline, up to 100' AGL/579' MSL.  
Trees 1.4 NM from DER, 2838' right of centerline, up to 100' AGL/1099' MSL.  
**Rwy 14**, building, beginning abeam DER, 108' right of centerline, up to 21' AGL/495' MSL.  
Pole, trees beginning 129' from DER, 133' left of centerline, up to 56' AGL/534' MSL.  
Vehicle on road beginning 229' from DER, left and right of centerline, up to 494' MSL.  
Trees 494' from DER, 125' left of centerline, up to 100' AGL/573' MSL.  
Trees beginning 604' from DER, 81' right of centerline, up to 45' AGL/518' MSL.  
Trees beginning 1039' from DER, left and right of centerline, up to 100' AGL/573' MSL.  
Pole, trees 1083' from DER, 67' right of centerline, up to 82' AGL/561' MSL.  
Pole, trees 1189' from DER, 94' left of centerline, up to 89' AGL/566' MSL.  
Trees beginning 1326' from DER, 54' right of centerline, up to 96' AGL/577' MSL.  
Trees beginning 1469' from DER, left and right of centerline, up to 108' AGL/588' MSL.  
Trees beginning 1746' from DER, left and right of centerline, up to 117' AGL/603' MSL.  
Pole, trees beginning 4667' from DER, 1' left of centerline, up to 67' AGL/729' MSL.

##### CON'T

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

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

21336

## KEENE, NH (CON'T)

### DILLANT-HOPKINS (EEN) (CON'T)

- Rwy 14 (CON'T)**, pole, trees beginning 1.3 NM from DER, 4' left of centerline, up to 61' AGL/1050' MSL.  
Tree 2.1 NM from DER, 3816' left of centerline, 100' AGL/1319' MSL.
- Rwy 20**, trees 45' from DER, 411' right of centerline, up to 25' AGL/497' MSL.  
Trees beginning 556' from DER, 629' right of centerline, up to 94' AGL/556' MSL.  
Poles beginning 1024' from DER, 646' left of centerline, up to 36' AGL/529' MSL.  
Trees, pole beginning 1761' from DER, 369' left of centerline, up to 104' AGL/614' MSL.  
Trees 2099' from DER, 745' left of centerline, up to 103' AGL/622' MSL.  
Pole, trees beginning 2326' from DER, 345' left of centerline, up to 103' AGL/623' MSL.  
Trees beginning 2553' from DER, 768' right of centerline, up to 88' AGL/583' MSL.  
Trees beginning 2763' from DER, 704' left of centerline, up to 104' AGL/646' MSL.  
Trees beginning 2950' from DER, 1014' right of centerline, up to 98' AGL/594' MSL.  
Trees beginning 3127' from DER, 543' left of centerline, up to 106' AGL/665' MSL.  
Vegetation beginning 3504' from DER, 1034' left of centerline, up to 114' AGL/665' MSL.  
Transmission lines 4780' from DER, left and right of centerline, up to 52' AGL/630' MSL.
- Rwy 32**, trees beginning 212' from DER, 232' right of centerline, up to 24' AGL/493' MSL.  
Trees 357' from DER, 264' left of centerline, 26' AGL/493' MSL.  
Trees beginning 685' from DER, 293' left of centerline, up to 32' AGL/499' MSL.  
Trees beginning 741' from DER, 43' right of centerline, up to 89' AGL/560' MSL.  
Vehicle on road 788' from DER, left and right of centerline, 492' MSL.  
Trees beginning 1551' from DER, 403' left of centerline, up to 64' AGL/531' MSL.  
Trees beginning 1785' from DER, 263' left of centerline, up to 64' AGL/533' MSL.  
Trees beginning 2005' from DER, 28' left of centerline, up to 90' AGL/559' MSL.  
Transmission line, trees beginning 2066' from DER, left and right of centerline, up to 70' AGL/543' MSL.

## LACONIA, NH

### LACONIA MUNI (LCI)

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

AMDT 4 07MAY09 (09127) (FAA)

##### TAKEOFF MINIMUMS:

- Rwy 8**, 600-1¼ or std. w/ min. climb of 652' per NM to 1300.  
**Rwy 26**, 300-1 or std. w/ min. climb of 421' per NM to 900.

##### DEPARTURE PROCEDURE:

- Rwy 8**, climb to 2500 via heading 079° and ENE VORTAC R-315 inbound to 3500 before proceeding on course.  
**Rwy 26**, climb heading 264° to 2500 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

- Rwy 8**, trees, terrain, and pole beginning 65' from DER, 20' right of centerline, up to 50' AGL/1112' MSL.  
Trees and terrain beginning 93' from DER, 5' left of centerline, up to 71' AGL/590' MSL.  
**Rwy 26**, trees and antenna on tower beginning 123' from DER, 42' left of centerline, up to 84' AGL/743' MSL.  
Trees beginning 2145' from DER, 626' right of centerline, up to 93' AGL/672' MSL.

## LAWRENCE, MA

### LAWRENCE MUNI (LWM)

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

AMDT 5 03JAN19 (19003) (FAA)

##### TAKEOFF MINIMUMS:

- Rwy 5**, 300-1½ or std. w/min. climb of 435' per NM to 500.  
**Rwy 14**, 300-1 or std. w/min. climb of 625' per NM to 600.  
**Rwy 23**, 300-1 or std. w/min. climb of 350' per NM to 400.

##### DEPARTURE PROCEDURE:

- Rwy 5**, climb heading 053° to 1100 before turning left.

##### TAKEOFF OBSTACLE NOTES:

- Rwy 5**, vegetation 174' from DER, 529' right of centerline, 25' AGL/143' MSL.  
Tree 387' from DER, 388' left of centerline, 69' AGL/150' MSL.  
Tree 591' from DER, 546' left of centerline, 92' AGL/154' MSL.  
Tree 598' from DER, 561' left of centerline, 100' AGL/162' MSL.  
Tree 644' from DER, 566' right of centerline, 54' AGL/186' MSL.  
Trees beginning 689' from DER, 403' right of centerline, up to 63' AGL/198' MSL.  
Tree 1660' from DER, 849' right of centerline, 65' AGL/225' MSL.  
Trees beginning 1668' from DER, 257' right of centerline, up to 68' AGL/228' MSL.  
Tree 1683' from DER, 269' left of centerline, 60' AGL/180' MSL.  
Tree 1694' from DER, 345' left of centerline, 67' AGL/181' MSL.  
Tree 1720' from DER, 303' left of centerline, 54' AGL/182' MSL.  
Tree 1832' from DER, 207' left of centerline, 54' AGL/184' MSL.  
Tree 2240' from DER, 551' left of centerline, 89' AGL/194' MSL.  
Tree 2288' from DER, 637' left of centerline, 98' AGL/198' MSL.  
Trees beginning 2339' from DER, 342' left of centerline, up to 104' AGL/199' MSL.  
Antenna 2927' from DER, 182' left of centerline, 101' AGL/211' MSL.  
Trees beginning 3562' from DER, 413' right of centerline, up to 89' AGL/327' MSL.  
Trees beginning 3831' from DER, 340' right of centerline, up to 93' AGL/331' MSL.  
Tree, pole beginning 4026' from DER, 5' right of centerline, up to 95' AGL/335' MSL.  
Tree 4417' from DER, 176' left of centerline, 94' AGL/247' MSL.

CON'T

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

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

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## LAWRENCE, MA (CON'T)

### LAWRENCE MUNI (LWM) (CON'T)

**Rwy 5 (CON'T)**, trees beginning 4421' from DER, 49' left of centerline, up to 108' AGL/264' MSL.

Trees beginning 4614' from DER, 96' left of centerline, up to 93' AGL/276' MSL.

Trees beginning 4727' from DER, 155' left of centerline, up to 90' AGL/280' MSL.

Trees beginning 4745' from DER, 45' left of centerline, up to 85' AGL/282' MSL.

Trees beginning 4864' from DER, 42' left of centerline, up to 84' AGL/289' MSL.

Trees beginning 1.2 NM from DER, 351' left of centerline, up to 81' AGL/336' MSL.

Tree 1.2 NM from DER, 40' right of centerline, 90' AGL/354' MSL.

Tree 1.2 NM from DER, 13' left of centerline, 85' AGL/349' MSL.

Tree 1.2 NM from DER, 225' right of centerline, 87' AGL/352' MSL.

**Rwy 14**, vegetation 102' from DER, 105' right of centerline, 6' AGL/155' MSL.

Tree, vegetation, pole beginning 150' from DER, 9' left of centerline, up to 57' AGL/184' MSL.

Tree, building, pole beginning 197' from DER, 20' right of centerline, up to 50' AGL/198' MSL.

Tree 938' from DER, 294' left of centerline, 64' AGL/186' MSL.

Tree 3188' from DER, 482' right of centerline, 107' AGL/290' MSL.

Tree 3313' from DER, 644' right of centerline, 105' AGL/322' MSL.

Pole 3473' from DER, 1391' right of centerline, 80' AGL/417' MSL.

**Rwy 23**, vegetation 16' from DER, 183' right of centerline, 17' AGL/140' MSL.

Vegetation 75' from DER, 478' left of centerline, 26' AGL/146' MSL.

Antenna, tree beginning 272' from DER, 557' left of centerline, up to 72' AGL/173' MSL.

Stack beginning 3667' from DER, 1310' right of centerline, up to 260' AGL/294' MSL.

**Rwy 32**, tree 120' from DER, 155' right of centerline, 29' AGL/143' MSL.

Tree 159' from DER, 198' left of centerline, 50' AGL/141' MSL.

## LEBANON, NH

### LEBANON MUNI (LEB)

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

#### AMDT 3 17JUN21 (21168) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 36**, std. w/min. climb of 365' per NM to 1900, or 2100-3 for VCOA.

**Rwy 18**, 500-2½ w/min. climb of 380' per NM to 3800, or 2100-3 for VCOA.

**Rwy 7**, 600-2¼ w/min. climb of 385' per NM to 3100, or 2100-3 for VCOA.

**Rwy 25**, 700-3 w/min. climb of 380' per NM to 3400, or 2100-3 for VCOA.

##### DEPARTURE PROCEDURE:

**Rwy 36**, climb on heading 004° to 1900 before proceeding on course.

**Rwy 18**, climb on heading 184° to 2100 before proceeding on course.

**Rwy 7**, climb on heading 075° to 2100 before proceeding on course.

**Rwy 25**, climb on heading 255° to 2100 before proceeding on course.

##### VCOA:

**All runways**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Lebanon Muni airport at or above 2600 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 36**, lighting 10' from DER, 100' left of centerline, 565' MSL.

Fence, pole, tree beginning 81' from DER, 475' left of centerline, up to 569' MSL.

Tree 358' from DER, 511' right of centerline, 64' AGL/583' MSL.

**Rwy 18**, poles beginning 137' from DER, 506' left of centerline, up to 54' AGL/670' MSL.

Poles, terrain, vegetation, trees beginning 139' from DER, 472' right of centerline, up to 48' AGL/676' MSL.

Trees, poles beginning 762' from DER, 181' left of centerline, up to 733' MSL.

Trees, poles, terrain beginning 1133' from DER, 106' right of centerline, up to 738' MSL.

Trees, poles beginning 1909' from DER, 33' left of centerline, up to 752' MSL.

Trees, terrain beginning 3990' from DER, 66' left of centerline, up to 743' MSL.

Trees beginning 4001' from DER, 14' right of centerline, up to 781' MSL.

Tree 1.2 NM from DER, 1902' left of centerline, 903' MSL.

Trees, terrain beginning 1.2 NM from DER, 103' left of centerline, up to 891' MSL.

Trees, terrain beginning 1.4 NM from DER, 964' left of centerline, up to 1007' MSL.

Tree 1.6 NM from DER, 3048' left of centerline, 1055' MSL.

Trees, terrain beginning 1.6 NM from DER, 787' left of centerline, up to 951' MSL.

Trees, terrain, transmission lines beginning 1.6 NM from DER, 2776' right of centerline, up to 879' MSL.

**Rwy 7**, tree, NAVAID beginning 13' from DER, 125' left of centerline, up to 20' AGL/581' MSL.

Trees, transmission line, pole beginning 20' from DER, 390' right of centerline, up to 715' MSL.

Trees, pole beginning 29' from DER, 255' right of centerline, up to 20' AGL/642' MSL.

Trees, poles, transmission lines, building beginning 524' from DER, 326' right of centerline, up to 100' AGL/729' MSL.

Tree 1958' from DER, 1010' right of centerline, 98' AGL/752' MSL.

Transmission lines, poles, trees beginning 1974' from DER, 778' right of centerline, up to 37' AGL/678' MSL.

Trees, transmission line beginning 2575' from DER, 317' right of centerline, up to 763' MSL.

Trees beginning 1.4 NM from DER, 167' right of centerline, up to 808' MSL.

Trees beginning 1.5 NM from DER, 1549' left of centerline, up to 827' MSL.

Tree 2 NM from DER, 2487' left of centerline, 1134' MSL.

Trees beginning 2 NM from DER, 1839' left of centerline, up to 1053' MSL.

Tree 2.2 NM from DER, 3877' left of centerline, 962' MSL.

##### CON'T

02 DEC 2021 to 30 DEC 2021

02 DEC 2021 to 30 DEC 2021

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

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## LEBANON, NH (CON'T)

### LEBANON MUNI (LEB) (CON'T)

- Rwy 25**, trees, building beginning 198' from DER, 453' left of centerline, up to 593' MSL.  
Tree 382' from DER, 503' right of centerline, 92' AGL/581' MSL.  
Trees, pole beginning 1082' from DER, 399' left of centerline, up to 42' AGL/606' MSL.  
Tree 2.8 NM from DER, 3002' right of centerline, 1232' MSL.  
Tree 2.9 NM from DER, 3201' right of centerline, 1013' MSL.

## LINCOLN, ME

### LINCOLN RGNL (LRG)

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

AMDT 3 29JUL10 (10210) (FAA)

##### TAKEOFF MINIMUMS:

- Rwy 17**, 700-1½ with a minimum climb of 389' per NM to 1100 or 1100-2½ for climb in visual conditions.  
**Rwy 35**, 300-1 or std. w/ min. climb of 453' per NM to 500.

##### DEPARTURE PROCEDURE:

- Rwy 17**, climb heading 181° to 1100 before proceeding on course. For climb in visual conditions, cross Lincoln Rgnl airport at or above 1200 MSL before proceeding on course.  
**Rwy 35**, climb heading 346° to 700 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

- Rwy 17**, trees beginning 123' from DER, 296' left of centerline, up to 80' AGL/299' MSL.  
Trees beginning 447' from DER, 126' right of centerline, up to 80' AGL/289' MSL.  
Towers beginning 7448' from DER, 2310' left of centerline, up to 191' AGL/869' MSL.  
**Rwy 35**, trees beginning 4' from DER, 284' left of centerline, up to 80' AGL/359' MSL.  
Trees beginning 252' from DER, 196' right of centerline, up to 80' AGL/369' MSL.

## LYNDONVILLE, VT

### CALEDONIA COUNTY (CDA)

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

AMDT 6 12NOV15 (15316) (FAA)

##### TAKEOFF MINIMUMS:

- Rwy 2**, 500-2 w min. climb of 255' per NM to 3600, or 2600-3 for climb in visual conditions.  
**Rwy 20**, std. w/min. climb of 270' per NM to 2100, or 2600-3 for climb in visual conditions.

##### DEPARTURE PROCEDURE:

- Rwy 2**, climb heading 024° to 3500 before proceeding on course or for climb in visual conditions, cross Caledonia County airport at or above 3600. When executing the VCOA, notify ATC prior to departure.  
**Rwy 20**, climb heading 204° to 3300 before proceeding on course or for climb in visual conditions to cross Caledonia County airport at or above 3600. When executing the VCOA, notify ATC prior to departure.

##### TAKEOFF OBSTACLE NOTES:

- Rwy 2**, trees beginning 1068' from DER, 721' left of centerline, up to 80' AGL/1359' MSL.  
Terrain beginning 1327' from DER, 29' left of centerline, 1319' MSL.  
Trees beginning 2510' from DER, 568' left of centerline, up to 80' AGL/1359' MSL.  
Terrain beginning 2529' from DER, 74' left of centerline, 1339' MSL.  
Trees beginning 2919' from DER, 554' left of centerline, up to 80' AGL/1395' MSL.  
Terrain beginning 2989' from DER, 51' right of centerline, 1322' MSL.  
Trees beginning 4533' from DER, 1636' left of centerline, up to 80' AGL/1419' MSL.  
Terrain beginning 1.1 NM from DER, 61' left of centerline, 1446' MSL.  
Trees beginning 1.1 NM from DER, 276' left of centerline, up to 80' AGL/1477' MSL.  
Terrain beginning 1.5 NM from DER, 454' left of centerline, 1466' MSL.  
Trees beginning 1.6 NM from DER, 648' left of centerline, up to 80' AGL/1558' MSL.  
Rising terrain beginning 9.2 NM from DER, 1.9 NM left of centerline, up to 2773' MSL.  
**Rwy 20**, terrain beginning 115' from DER, left and right of centerline, up to 1198' MSL.  
Trees beginning 578' from DER, 107' right of centerline, up to 80' AGL/1257' MSL.  
Rising terrain beginning 3.3 NM from DER, 4397' right of centerline, up to 1659' MSL.

## MACHIAS, ME

### MACHIAS VALLEY (MVM)

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

AMDT 2 22AUG13 (13234) (FAA)

##### TAKEOFF MINIMUMS:

- Rwy 18**, 400-2.  
**Rwy 36**, 400-3

##### TAKEOFF OBSTACLE NOTES:

- Rwy 18**, multiple buildings, vehicles on road beginning 720' from DER, left and right of centerline, up to 25' AGL/124' MSL.  
Terrain and trees beginning 65' from DER, left and right of centerline, up to 100' AGL/319' MSL.  
**Rwy 36**, multiple buildings, vehicles on road beginning 2453' from DER, left and right of centerline, up to 25' AGL/204' MSL.  
Trees beginning 105' from DER, left and right of centerline, up to 100' AGL/459' MSL.  
Tower 7922' from DER, 883' left of centerline, up 85' AGL/402' MSL.

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

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## MANCHESTER, NH

### MANCHESTER BOSTON RGNL (MHT)

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

AMDT 10B 13SEP18 (21280) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 17**, 300-1½ or std. w/min. climb of 268' per NM to 600.

**Rwy 35**, 300-1½ or std. w/min. climb of 265' per NM to 500.

##### DEPARTURE PROCEDURE:

**Rwy 6**, climb heading 057° to 1000 before turning right.

**Rwy 24**, climb heading 244° to 1000 before proceeding on course.

**Rwy 35**, climb heading 352° to 1300 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 6**, fence 6' from DER, 468' right of centerline, 12' AGL/242' MSL.

Lighting 40' from DER, 117' right of centerline, 3' AGL/243' MSL.

Pole 67' from DER, 454' left of centerline, 24' AGL/253' MSL.

Trees beginning 584' from DER, 599' right of centerline, up to 61' AGL/265' MSL.

Trees beginning 798' from DER, 90' right of centerline, up to 66' AGL/268' MSL.

Trees beginning 819' from DER, 163' left of centerline, up to 66' AGL/273' MSL.

Tree 1014' from DER, 309' right of centerline, 87' AGL/269' MSL.

Trees beginning 1102' from DER, 473' right of centerline, up to 72' AGL/272' MSL.

Tree 1535' from DER, 660' left of centerline, 78' AGL/281' MSL.

Trees beginning 1893' from DER, 215' left of centerline, up to 97' AGL/297' MSL.

Tree 2056' from DER, 366' left of centerline, 102' AGL/302' MSL.

Tree 2154' from DER, 469' left of centerline, 102' AGL/307' MSL.

Trees beginning 2189' from DER, 551' left of centerline, up to 107' AGL/308' MSL.

Tree 2315' from DER, 653' left of centerline, 107' AGL/313' MSL.

**Rwy 17**, vehicles on roadway 643' from DER, 640' left of centerline, 303' MSL.

Building 761' from DER, 421' right of centerline, 8' AGL/300' MSL.

Vehicles on roadway beginning 764' from DER, 392' left of centerline, up to 304' MSL.

Tree 1087' from DER, 640' left of centerline, 323' MSL.

Vehicles on roadway 1167' from DER, 717' right of centerline, 303' MSL.

Trees, terrain beginning 1288' from DER, 320' left of centerline, up to 334' MSL.

Vehicles on roadway, poles beginning 1345' from DER, 211' right of centerline, up to 307' MSL.

Poles beginning 1430' from DER, 200' right of centerline, up to 34' AGL/324' MSL.

Tree 1479' from DER, 710' left of centerline, 27' AGL/335' MSL.

Trees, poles beginning 1554' from DER, 281' right of centerline, up to 40' AGL/329' MSL.

Trees, terrain, vertical point, building, vehicles on roadway, sign, poles beginning 1558' from DER, 5' left of centerline, up to 41' AGL/346' MSL.

Tree 1760' from DER, 530' right of centerline, 43' AGL/332' MSL.

Tree 1825' from DER, 413' right of centerline, 47' AGL/335' MSL.

Trees, fence, building, pole, terrain beginning 1876' from DER, on centerline, up to 48' AGL/336' MSL.

Trees, pole beginning 2053' from DER, on centerline, up to 49' AGL/339' MSL.

Tree, vehicles on roadway, building beginning 2146' from DER, 138' left of centerline, up to 43' AGL/352' MSL.

Trees, sign, building, pole beginning 2177' from DER, 1' left of centerline, up to 44' AGL/359' MSL.

Trees, pole beginning 2215' from DER, 118' right of centerline, up to 58' AGL/362' MSL.

Tree, building, pole, terrain, vehicles on roadway, spire, sign beginning 2267' from DER, 4' left of centerline, up to 46' AGL/362' MSL.

Trees, vehicles on roadway, pole, building beginning 2383' from DER, on centerline, up to 55' AGL/366' MSL.

Trees, pole, building beginning 2846' from DER, 64' left of centerline, up to 52' AGL/370' MSL.

Trees beginning 2876' from DER, 196' right of centerline, up to 368' MSL.

Trees, pole, building beginning 2885' from DER, 2' right of centerline, up to 70' AGL/378' MSL.

Trees, pole beginning 3155' from DER, 11' right of centerline, up to 78' AGL/384' MSL.

Trees, building, tank beginning 3216' from DER, 37' left of centerline, up to 51' AGL/379' MSL.

Trees, pole, building beginning 3401' from DER, 17' left of centerline, up to 52' AGL/383' MSL.

Trees, pole beginning 3455' from DER, 33' right of centerline, up to 385' MSL.

Trees beginning 3494' from DER, 201' left of centerline, up to 384' MSL.

Tree 3514' from DER, 425' left of centerline, 385' MSL.

Trees, tank beginning 3543' from DER, 36' left of centerline, up to 397' MSL.

Trees, pole beginning 3564' from DER, 41' right of centerline, up to 395' MSL.

Trees, elevator, grain elevator, pole, tank, building, antenna, vertical point beginning 3721' from DER, 6' right of centerline, up to 396' MSL.

Trees beginning 3994' from DER, 49' left of centerline, up to 62' AGL/401' MSL.

Trees beginning 4090' from DER, 147' left of centerline, up to 62' AGL/402' MSL.

Trees beginning 4197' from DER, 50' left of centerline, up to 70' AGL/405' MSL.

Trees, pole, transmission line, building beginning 4334' from DER, 14' right of centerline, up to 93' AGL/414' MSL.

Trees beginning 4372' from DER, 764' left of centerline, up to 407' MSL.

Trees beginning 4457' from DER, 1078' left of centerline, up to 408' MSL.

Trees, pole beginning 4500' from DER, 10' left of centerline, up to 417' MSL.

Tree 4773' from DER, 511' left of centerline, 60' AGL/419' MSL.

Trees beginning 4784' from DER, 92' right of centerline, up to 416' MSL.

Trees beginning 4793' from DER, 421' left of centerline, up to 71' AGL/422' MSL.

Trees beginning 4820' from DER, 10' left of centerline, up to 81' AGL/426' MSL.

Tree, pole beginning 4830' from DER, 26' right of centerline, up to 419' MSL.

Tree, pole beginning 4907' from DER, 91' right of centerline, up to 422' MSL.

Trees beginning 5004' from DER, 155' right of centerline, up to 426' MSL.

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

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

21336

## MANCHESTER, NH (CON'T)

### MANCHESTER BOSTON RGNL (MHT) (CON'T)

**Rwy 17 (CON'T)**, tree, pole beginning 5105' from DER, 63' right of centerline, up to 431' MSL.  
 Trees beginning 5128' from DER, 186' left of centerline, up to 32' AGL/427' MSL.  
 Tree, terrain beginning 5182' from DER, 52' left of centerline, up to 47' AGL/436' MSL.  
 Trees, vehicles on roadway beginning 5278' from DER, 4' right of centerline, up to 59' AGL/437' MSL.  
 Tree, pole beginning 5331' from DER, 44' right of centerline, up to 56' AGL/441' MSL.  
 Tree, terrain beginning 5346' from DER, 35' left of centerline, up to 64' AGL/445' MSL.  
 Trees, vehicles on roadway, pole beginning 5392' from DER, 8' right of centerline, up to 442' MSL.  
 Pole, trees, vehicles on roadway, terrain beginning 5550' from DER, 4' left of centerline, up to 29' AGL/447' MSL.  
 Trees, vehicles on roadway, terrain, pole, building beginning 5696' from DER, 14' left of centerline, up to 80' AGL/455' MSL.  
 Trees beginning 5787' from DER, 16' right of centerline, up to 65' AGL/452' MSL.  
 Tree 5929' from DER, 474' left of centerline, 68' AGL/457' MSL.  
 Tree, pole beginning 5952' from DER, 73' left of centerline, up to 66' AGL/459' MSL.  
 Trees beginning 1 NM from DER, 98' left of centerline, up to 96' AGL/461' MSL.  
 Trees beginning 1 NM from DER, 17' left of centerline, up to 463' MSL.  
 Tree 1.1 NM from DER, 336' right of centerline, 453' MSL.  
 Tree 1.2 NM from DER, 608' left of centerline, 100' AGL/458' MSL.  
**Rwy 24**, terrain 3' from DER, on centerline, 221' MSL.  
 Pole 221' from DER, 475' left of centerline, 18' AGL/227' MSL.  
 Building 394' from DER, 581' left of centerline, 28' AGL/233' MSL.  
 Trees beginning 451' from DER, 220' left of centerline, up to 74' AGL/257' MSL.  
 Trees beginning 785' from DER, 545' left of centerline, up to 92' AGL/264' MSL.  
 Trees beginning 810' from DER, 352' left of centerline, up to 119' AGL/293' MSL.  
 Tree 2556' from DER, 1112' right of centerline, 85' AGL/294' MSL.  
 Trees beginning 3529' from DER, 1042' right of centerline, up to 101' AGL/313' MSL.  
**Rwy 35**, tree 612' from DER, 613' left of centerline, 237' MSL.  
 Tree 712' from DER, 493' left of centerline, 239' MSL.  
 Tree 719' from DER, 623' right of centerline, 38' AGL/243' MSL.  
 Trees beginning 891' from DER, 527' left of centerline, up to 26' AGL/248' MSL.  
 Tree 1114' from DER, 788' right of centerline, 261' MSL.  
 Pole, tree beginning 1147' from DER, 486' left of centerline, up to 39' AGL/258' MSL.  
 Tree 1779' from DER, 944' right of centerline, 77' AGL/271' MSL.  
 Tree 1888' from DER, 991' right of centerline, 96' AGL/287' MSL.  
 Tree 1989' from DER, 994' left of centerline, 274' MSL.  
 Tree 2030' from DER, 989' left of centerline, 61' AGL/280' MSL.  
 Tree 2247' from DER, 1079' left of centerline, 68' AGL/288' MSL.  
 Trees, poles beginning 2505' from DER, 558' right of centerline, up to 64' AGL/303' MSL.  
 Tree 2514' from DER, 1135' left of centerline, 75' AGL/295' MSL.  
 Trees beginning 2518' from DER, 923' left of centerline, up to 74' AGL/297' MSL.  
 Trees beginning 2785' from DER, 694' left of centerline, up to 78' AGL/301' MSL.  
 Trees beginning 3093' from DER, 511' left of centerline, up to 78' AGL/305' MSL.  
 Tree 3358' from DER, 1235' left of centerline, 314' MSL.  
 Tree 3378' from DER, 1133' left of centerline, 318' MSL.  
 Tree 3422' from DER, 1212' left of centerline, 106' AGL/319' MSL.  
 Trees beginning 3475' from DER, 268' left of centerline, up to 327' MSL.  
 Trees beginning 4270' from DER, 261' left of centerline, up to 86' AGL/333' MSL.  
 Tree 5359' from DER, 1186' left of centerline, 84' AGL/352' MSL.  
 Tree 5509' from DER, 528' left of centerline, 357' MSL.  
 Trees beginning 5536' from DER, 1317' left of centerline, up to 67' AGL/361' MSL.  
 Trees beginning 5581' from DER, 1079' left of centerline, up to 65' AGL/364' MSL.  
 Trees beginning 5689' from DER, 1038' left of centerline, up to 65' AGL/368' MSL.  
 Trees beginning 5703' from DER, 1259' left of centerline, up to 63' AGL/370' MSL.  
 Tree 5775' from DER, 1860' left of centerline, 78' AGL/395' MSL.  
 Trees beginning 5851' from DER, 1038' left of centerline, up to 77' AGL/403' MSL.  
 Trees beginning 5934' from DER, 1317' left of centerline, up to 76' AGL/409' MSL.  
 Tree, pole beginning 1 NM from DER, 795' left of centerline, up to 71' AGL/416' MSL.  
 Trees beginning 1 NM from DER, 1093' left of centerline, up to 68' AGL/417' MSL.  
 Tree 1.2 NM from DER, 1944' left of centerline, 85' AGL/407' MSL.

## MANSFIELD, MA

### MANSFIELD MUNI (1B9)

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

AMDT 2A 27JUN13 (13178) (FAA)

##### TAKEOFF MINIMUMS:

**Rwys 4,22**, NA - VFR only.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 14**, trees beginning 89' from DER, 454' left of centerline, up to 65' AGL/182' MSL.  
 Trees beginning 68' from DER, 143' left of centerline, up to 32' AGL/149' MSL.  
 Trees beginning 82' from DER, 98' right of centerline, up to 31' AGL/148' MSL.  
 Trees beginning 1067' from DER, 14' left of centerline, up to 67' AGL/184' MSL.  
 Trees beginning 846' from DER, 8' right of centerline, up to 101' AGL/208' MSL.

CON'T

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

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02 DEC 2021 to 30 DEC 2021

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

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## MANSFIELD, MA (CON'T)

### MANSFIELD MUNI (1B9) (CON'T)

- Rwy 32**, sign 56° from DER, 164' right of centerline, 2' AGL/124' MSL.  
Trees beginning 52' from DER, 187' left of centerline, up to 54' AGL/173' MSL.  
Trees beginning 742' from DER, 17' left of centerline, up to 97' AGL/224' MSL.  
Trees beginning 638' from DER, 10' right of centerline, up to 103' AGL/230' MSL.

## MARSHFIELD, MA

### MARSHFIELD MUNI - GEORGE HARLOW FLD (GHG)

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

AMDT 1 13NOV14 (21224) (FAA)

##### TAKEOFF MINIMUMS:

- Rwy 24**, 200-1¼ or std. w/min. climb of 205' per NM to 300, or alternatively, with std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1100' prior to DER.

##### DEPARTURE PROCEDURE:

- Rwy 24**, climb heading 242° to 500 before turning north.

##### TAKEOFF OBSTACLE NOTES:

- Rwy 6**, trees and bushes beginning 21' from DER, left and right of centerline, up to 51' AGL/51' MSL.  
Trees, poles and buildings beginning 1001' from DER, left and right of centerline, up to 59' AGL/68' MSL.  
Boat mast beginning 2734' from DER, left and right of centerline, up to 125' AGL/125' MSL.  
**Rwy 24**, trees beginning 15' from DER, 84' left of centerline, up to 74' AGL/74' MSL.  
Tree 474' from DER, 624' right of centerline, up to 71' AGL/77' MSL.  
Trees beginning 1371' from DER, left and right of centerline, up to 88' AGL/92' MSL.  
Trees beginning 4463' from DER, 1298' left of centerline, up to 88' AGL/153' MSL.  
Tree 6031' from DER, 1306' left of centerline, up to 89' AGL/158' MSL.

## MERIDEN, CT

### MERIDEN MARKHAM MUNI (MMK)

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

AMDT 3 15FEB07 (07046) (FAA)

##### TAKEOFF MINIMUMS:

- Rwy 18**, 500-3 or std. w/ min. climb of 235' per NM to 1100.  
**Rwy 36**, std. w/ min. climb of 420' per NM to 1600, or 1500-2½ for climb in visual conditions.

##### DEPARTURE PROCEDURE:

- Rwy 18**, climb heading 176° to 1100 before proceeding on course.  
**Rwy 36**, climbing left turn heading 320° to 1600 before proceeding on course, or for climb in visual conditions, cross Meriden Markham Municipal at or above 1500 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

- Rwy 18**, 200' AAO 1.9 NM from DER, 3441' left of centerline, 200' AGL/417' MSL.  
200' AAO 1.9 NM from DER, 3563' left of centerline, 200' AGL/417' MSL.  
Terrain 50' from DER, 440' right of centerline, 109' MSL.  
200' AAO 1.9 NM from DER, 3346' left of centerline, 200' AGL/410' MSL.  
Terrain 122' from DER, 223' right of centerline, 105' MSL.  
200' AAO 2.5 NM from DER, 1984' left of centerline, 200' AGL/483' MSL.  
200' AAO 2.5 NM from DER, 1889' left of centerline, 200' AGL/489' MSL.  
Multiple power lines beginning 500' from DER, 216' right of centerline, up to 52' AGL/172' MSL.  
Multiple power lines beginning 781' from DER, 192' left of centerline, up to 52' AGL/150' MSL.  
**Rwy 36**, multiple towers 3 NM from DER, 2284' right of centerline, up to 1117' AGL/1220' MSL.  
Multiple terrain/AAO 2.5 NM from DER, 3748' right of centerline, up to 200' AGL/903' MSL.

## MILLINOCKET, ME

### MILLINOCKET MUNI (MLT)

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

AMDT 3 11FEB10 (10042) (FAA)

##### TAKEOFF MINIMUMS:

- Rwy 29**, 400-3 or std. w/ min. climb of 535' per NM to 1000.  
**Rwy 34**, 400-2½ or std. w/ min. climb of 351' per NM to 900.

##### DEPARTURE PROCEDURE:

- Rwy 11**, climb via heading 107° and MLT R-330 to MLT VOR/DME thence...  
**Rwy 16**, climb via heading 156° and MLT R-309 to MLT VOR/DME thence...  
**Rwy 29**, climb via heading 287° to 1000 then climbing left turn via heading 152° and MLT R-290 to MLT VOR/DME thence...  
**Rwy 34**, climbing right turn via heading 156° and MLT R-344 to MLT VOR/DME thence...  
...continue climb in MLT VOR/DME holding pattern (Southeast, Right Turns, 319° inbound) to cross MLT VOR/DME at or above 3000 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

- Rwy 11**, bushes beginning 82' from DER, 25' left of centerline, up to 16' AGL/406' MSL.  
Trees beginning 49' from DER, 258' left of centerline, up to 100' AGL/489' MSL.  
Trees beginning 52' from DER, 247' right of centerline, up to 100' AGL/489' MSL.  
Trees beginning 1685' from DER, left and right of centerline, up to 100' AGL/519' MSL.

CON'T

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

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

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## MILLINOCKET, ME (CON'T)

### MILLINOCKET MUNI (MLT) (CON'T)

**Rwy 16**, vehicle 311' from DER, left and right of centerline, 15' AGL/393' MSL.

Trees beginning 84' from DER, 272' left of centerline, up to 64' AGL/444' MSL.

Trees beginning 20' from DER, 247' right of centerline, up to 66' AGL/436' MSL.

Trees beginning 791' from DER, left and right of centerline, up to 100' AGL/489' MSL.

**Rwy 29**, antenna, towers, power lines, and stacks beginning 294' from DER, 250' left of centerline, up to 302' AGL/782' MSL.

Obstacle light on localizer, antenna, and power lines beginning 301' from DER, 1' right of centerline, up to 114' AGL/584' MSL.

Trees beginning 300' from DER, 395' left of centerline, up to 62' AGL/452' MSL.

Trees beginning 705' from DER, 237' right of centerline, up to 78' AGL/678' MSL.

**Rwy 34**, trees beginning 28' from DER, 249' right of centerline, up to 113' AGL/729' MSL.

Trees beginning 261' from DER, 317' left of centerline, up to 67' AGL/457' MSL.

Tower 11162' from DER, 470' right of centerline, 310' AGL/708' MSL.

## MONTAGUE, MA

### TURNERS FALLS (0B5)

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

AMDT 2 20JUN19 (19171) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 16**, 1000-3 w/min. climb of 480' per NM to 2000 or std. w/min. climb of 610' per NM to 1800, or 1600-3 for VCOA.

**Rwy 34**, std. w/min. climb of 270' per NM to 1800, or 1600-3 for VCOA.

##### DEPARTURE PROCEDURE:

**Rwy 34**, climb heading 338° to 1000 before turning right.

##### VCOA:

Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Turners Falls airport at or above 1800 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 16**, vegetation 84' from DER, 387' right of centerline, 361' MSL.

Vegetation 91' from DER, 229' right of centerline, 369' MSL.

Trees beginning 163' from DER, 219' right of centerline, up to 429' MSL.

Vegetation 172' from DER, 222' left of centerline, 364' MSL.

Vegetation and trees beginning 277' from DER, 117' left of centerline, up to 407' MSL.

Vegetation beginning 557' from DER, 262' left of centerline, up to 421' MSL.

Trees beginning 820' from DER, 400' right of centerline, up to 439' MSL.

Trees beginning 850' from DER, 345' left of centerline, up to 472' MSL.

Trees beginning 1909' from DER, 600' left of centerline, up to 481' MSL.

Trees beginning 2182' from DER, 423' left of centerline, up to 512' MSL.

Trees beginning 2280' from DER, 349' left of centerline, up to 531' MSL.

Trees beginning 2677' from DER, 358' left of centerline, up to 552' MSL.

Trees beginning 1.6 NM from DER, 714' left of centerline, up to 718' MSL.

Trees beginning 1.7 NM from DER, 327' left of centerline, up to 783' MSL.

Trees beginning 1.8 NM from DER, 162' left of centerline, up to 920' MSL.

Trees beginning 1.9 NM from DER, crossing extended runway centerline, up to 1045' MSL.

Trees beginning 2.0 NM from DER, crossing extended runway centerline, up to 1081' MSL.

Trees beginning 2.1 NM from DER, crossing extended runway centerline, up to 1143' MSL.

Trees beginning 2.2 NM from DER, crossing extended runway centerline, up to 1161' MSL.

Trees and buildings beginning 2.4 NM from DER, 174' right of centerline, up to 200' AGL/1100' MSL.

Trees and tower beginning 2.4 NM from DER, 126' left of centerline, up to 200' AGL/1320' MSL.

Trees beginning 2.5 NM from DER, 1646' right of centerline, up to 865' MSL.

**Rwy 34**, building 120' from DER, 494' left of centerline, 33' AGL/370' MSL.

Pole 235' from DER, 404' right of centerline, 37' AGL/373' MSL.

Building 243' from DER, 518' left of centerline, 371' MSL.

Trees beginning 295' from DER, 287' right of centerline, up to 407' MSL.

Tree 362' from DER, 465' left of centerline, 402' MSL.

Trees beginning 426' from DER, 162' left of centerline, up to 412' MSL.

Tower 2.3 NM from DER, 881' right of centerline, 199' AGL/736' MSL.

## MORRISVILLE, VT

### MORRISVILLE-STOWE STATE (MVL)

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

AMDT 3 07MAR13 (13066) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 1**, std. w/min. climb of 358' per NM to 4300 or 3500-3 for climb in visual conditions.

**Rwy 19**, 900-3 w/min. climb of 500' per NM to 5000 or 3500-3 for climb in visual conditions.

##### DEPARTURE PROCEDURE:

**Rwy 1**, climb heading 029° to 4300 before proceeding on course. For climb in visual conditions: cross Morrisville-Stowe State airport at or above 4100' MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.

**Rwy 19**, climbing right turn heading 040° to 5000 before proceeding on course. For climb in visual conditions: cross Morrisville-Stowe State airport at or above 4100' MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.

##### CON'T

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

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

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## MORRISVILLE, VT (CON'T)

### MORRISVILLE-STOWE STATE (MVL) (CON'T)

#### TAKEOFF OBSTACLE NOTES:

**Rwy 1**, multiple trees beginning 79' from DER, 40' right of centerline, up to 38' AGL/746' MSL.  
 Numerous trees beginning 1331' from DER, 160' right of centerline, up to 74' AGL/812' MSL.  
 Multiple buildings, trees, pole, and silo beginning 413' from DER, 595' left of centerline, up to 91' AGL/819' MSL.  
 Numerous trees beginning 1829' from DER, 257' left of centerline, up to 96' AGL/824' MSL.  
**Rwy 19**, numerous trees beginning 11' from DER, 364' right of centerline, up to 80' AGL/794' MSL.  
 Multiple buildings beginning 210' from DER, 469' right of centerline, up to 84' AGL/792' MSL.  
 Numerous trees and buildings beginning 677' from DER, 19' right of centerline, up to 89' AGL/817' MSL.  
 Numerous trees and poles beginning 1309' from DER, 73' right of centerline, up to 98' AGL/846' MSL.  
 Numerous trees beginning 5890' from DER, 1940' right of centerline, up to 113' AGL/900' MSL.  
 Multiple trees 187' from DER, 144' left of centerline, up to 54' AGL/762' MSL.  
 Numerous trees, poles, and building beginning 1218' from DER, 5' left of centerline, up to 102' AGL/850' MSL.  
 Numerous trees beginning 1.5 NM from DER, 1979' left of centerline, up to 95' AGL/1175' MSL.

## NANTUCKET, MA

### NANTUCKET MEML (ACK)

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

AMDT 3 08OCT98 (21112) (FAA)

#### TAKEOFF MINIMUMS:

**Rwy 12**, 700-1 or std. w/min. climb of 330' per NM to 800.

#### DEPARTURE PROCEDURE:

**Rwys 6, 12, 15, 24, 30, 33**, climb runway heading to 800 before proceeding on course.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 33**, 70' AGL ant. on building 954' from DER, 585' right of centerline.

## NASHUA, NH

### BOIRE FLD (ASH)

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

AMDT 4 27JUN13 (21112) (FAA)

#### DEPARTURE PROCEDURE:

**Rwy 32**, climb heading 319° to 900 before turning left.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 14**, trees beginning 47' from DER, left and right of centerline, up to 80' AGL/262' MSL.  
 Pole 707' from DER, 673' right of centerline, up to 37' AGL/221' MSL.  
 Poles beginning 853' from DER, 170' left of centerline, up to 28' AGL/217' MSL.  
 Pole 989' from DER, 560' right of centerline, up to 53' AGL/240' MSL.  
 Trees beginning 1030' from DER, 62' right of centerline, up to 80' AGL/270' MSL.  
 Trees beginning 1057' from DER, 6' left of centerline, up to 112' AGL/283' MSL.  
 Pole 1465' from DER, 656' right of centerline, up to 68' AGL/253' MSL.  
 Trees beginning 2253' from DER, 143' left of centerline, up to 82' AGL/287' MSL.  
 Trees beginning 2405' from DER, 205' right of centerline, up to 113' AGL/289' MSL.  
**Rwy 32**, trees beginning 20' from DER, 99' right of centerline, up to 96' AGL/295' MSL.  
 Trees beginning 882' from DER, on centerline, up to 80' AGL/259' MSL.  
 Trees beginning 2333' from DER, 107' left of centerline, up to 97' AGL/300' MSL.  
 Tree 3562' from DER, 1324' right of centerline, up to 80' AGL/312' MSL.

## NEW BEDFORD, MA

### NEW BEDFORD RGNL (EWB)

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

AMDT 8 20AUG15 (15232) (FAA)

#### TAKEOFF MINIMUMS:

**Rwy 14**, 300-1½ or std. w/min. climb of 280' per NM to 400.

**Rwy 32**, 300-2 or std. w/min. climb of 240' per NM to 400 or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1900' prior to DER.

#### DEPARTURE PROCEDURE:

**Rwy 14**, climb on heading 144° to 700 before turning right.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 5**, poles 37' from DER, 1' left of centerline, up to 13' AGL/87' MSL.  
 Vehicle on roadway 198' from DER, across centerline, up to 15' AGL/120' MSL.  
 Trees beginning 227' from DER, 452' right of centerline, up to 9' AGL/111' MSL.  
 Poles 257' from DER, along centerline, up to 14' AGL/91' MSL.  
 Poles beginning 478' from DER, 22' right of centerline, up to 16' AGL/101' MSL.  
 NAVAID/DME antenna 524' from DER, 237' left of centerline, 30' AGL/103' MSL.  
 Bush beginning 646' from DER, 21' left of centerline, up to 108' MSL.  
 Trees beginning 718' from DER, 382' left of centerline, up to 31' AGL/126' MSL.  
 Vehicle on roadway beginning 728' from DER, across centerline, up to 15' AGL/118' MSL.  
 Trees beginning 825' from DER, 436' right of centerline, up to 8' AGL/134' MSL.  
 Trees beginning 1198' from DER, left and right of centerline, up to 82' AGL/185' MSL.

CON'T

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

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

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## NEW BEDFORD, MA (CON'T) NEW BEDFORD RGNL (EWB) (CON'T)

**Rwy 14**, trees beginning 21' from DER, 360' left of centerline, up to 27' AGL/138' MSL.  
Trees beginning 647' from DER, 272' right of centerline, up to 27' AGL/126' MSL.  
Buildings 699' from DER, 650' left of centerline, up to 29' AGL/113' MSL.  
Trees beginning 712' from DER, 391' left of centerline, up to 27' AGL/142' MSL.  
Trees beginning 741' from DER, 314' right of centerline, up to 100' AGL/142' MSL.  
Buildings beginning 806' from DER, 585' left of centerline, up to 25' AGL/120' MSL.  
Tower and antenna 832' from DER, 616' left of centerline, up to 26' AGL/114' MSL.  
Trees beginning 1017' from DER, left and right of centerline, up to 27' AGL/134' MSL.  
Poles 1122' from DER, 735' left of centerline, up to 29' AGL/126' MSL.  
Monuments beginning 1181' from DER, 528' left of centerline, 2' AGL/99' MSL.  
Poles beginning 1259' from DER, 524' left of centerline, up to 42' AGL/139' MSL.  
Vehicle on roadway 1272' from DER, 742' left of centerline, up to 15' AGL/113' MSL.  
Fence and wall 1282' from DER, 675' left of centerline, up to 5' AGL/103' MSL.  
Poles beginning 1398' from DER, 590' right of centerline, up to 37' AGL/104' MSL.  
Buildings and signs 1602' from DER, 497' left of centerline, up to 37' AGL/125' MSL.  
Trees beginning 1982' from DER, left and right of centerline, up to 27' AGL/114' MSL.  
Signs 2916' from DER, 827' right of centerline, up to 70' AGL/171' MSL.  
Trees beginning 2921' from DER, 37' right of centerline, up to 57' AGL/158' MSL.  
Trees beginning 2971' from DER, 86' left of centerline, up to 57' AGL/151' MSL.  
Buildings 3335' from DER, 1140' left of centerline, up to 84' AGL/160' MSL.  
Chimney and stack 4102' from DER, 1391' left of centerline, up to 129' AGL/213' MSL.  
Building 4900' from DER, 1374' right of centerline, 143' AGL/235' MSL.  
Building, steeple and spire 1.1 NM from DER, 422' left of centerline, up to 233' AGL/281' MSL.  
**Rwy 23**, bush 5' from DER, 492' left of centerline, 65' MSL.  
NAVAIDS 7' from DER, along centerline, 1' AGL/65' MSL.  
Vehicle on roadway 29' from DER, 258' left of centerline, up to 15' AGL/90' MSL.  
Vehicle on roadway 99' from DER, 203' right of centerline, up to 15' AGL/89' MSL.  
Trees beginning 2171' from DER, 902' right of centerline, up to 54' AGL/146' MSL.  
Trees beginning 2543' from DER, 1166' left of centerline, up to 54' AGL/137' MSL.  
**Rwy 32**, bush beginning 39' from DER, 113' right of centerline, up to 95' MSL.  
Trees beginning 294' from DER, 115' right of centerline, up to 45' AGL/140' MSL.  
Poles beginning 540' from DER, 349' left of centerline, up to 30' AGL/107' MSL.  
Trees beginning 687' from DER, 10' left of centerline, up to 45' AGL/135' MSL.  
Buildings 930' from DER, 677' left of centerline, up to 38' AGL/109' MSL.  
Trees beginning 1035' from DER, left and right of centerline, up to 32' AGL/142' MSL.  
Trees beginning 2062' from DER, 513' left of centerline, up to 32' AGL/236' MSL.  
Trees beginning 1 NM from DER, left and right of centerline, up to 48' AGL/288' MSL.  
Trees beginning 1.3 NM from DER, 1802' right of centerline, up to 48' AGL/298' MSL.  
Trees beginning 1.4 NM from DER, 1679' left of centerline, up to 48' AGL/288' MSL.

## NEW HAVEN, CT

### TWEED/NEW HAVEN (HVN)

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

AMDT 6 12JAN12 (21336) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 2**, 300-1 w/min. climb of 340' per NM to 400.  
**Rwy 32**, 400-1½ or std. w/min. climb of 465' per NM to 600.

##### DEPARTURE PROCEDURE:

**Rwy 2**, climb heading 016° to 1900 before turning left.  
**Rwy 32**, climb heading 324° to 1500 before turning right.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 2**, transmission line towers beginning 846' from DER, 356' left of centerline, up to 35' AGL/65' MSL.  
Building 124' from DER, 525' right of centerline, 53' AGL/64' MSL.  
Trees 1276' from DER, 817' left of centerline, up to 80' AGL/239' MSL.  
Trees 3755' from DER, 1494' left of centerline, up to 80' AGL/289' MSL.  
**Rwy 14**, terrain, buildings, and poles beginning 777' from DER, 5' left of centerline, up to 31' AGL/69' MSL.  
Terrain, vehicles on road, tower, buildings, and poles beginning 429' from DER, 143' right of centerline, up to 58' AGL/94' MSL.  
**Rwy 20**, pole 68' from DER, 498' right of centerline, 16' AGL/42' MSL.  
**Rwy 32**, pole and trees beginning 1121' from DER, 55' left of centerline, up to 80' AGL/149' MSL.  
Control tower, poles, and trees beginning 617' from DER, 139' right of centerline, up to 80' AGL/149' MSL.  
Trees 2777' from DER, 1143' right of centerline, up to 80' AGL/169' MSL.  
Stack 1.1 NM from DER, 2227' right of centerline, 394' AGL/404' MSL.

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

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

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## NEWPORT, NH

### PARLIN FLD (2B3)

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

ORIG 26MAY16 (21168) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 12, 30**, NA-Environmental.

**Rwy 18**, 600-2½ w/min. climb of 365' per NM to 3400 or 2300-3 for climb in visual conditions.

**Rwy 36**, 700-1¼ w/min. climb of 487' per NM to 3700 or 2300-3 for climb in visual conditions. Procedure NA at night.

##### DEPARTURE PROCEDURE:

**Rwy 18**, Climb heading 182° to 3200 before proceeding on course.

**Rwy 36**, Climb heading 002° to 2100 before proceeding on course.

##### VCOA:

Obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Parlin Fld at or above 2900 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 18**, row of trees beginning 7' from DER, from 131' left to 460' right of centerline, and continuing 2715' south along both banks of the river, up to 100' AGL/887' MSL.

Trees beginning 8' from DER, 460' right of centerline, up to 100' AGL/907' MSL.

Trees beginning 439' from DER, 594' right of centerline, up to 100' AGL/926' MSL.

Buildings and trees beginning 2654' from DER, 677' left of centerline, up to 100' AGL/926' MSL.

Buildings and trees beginning 3117' from DER, 983' left of centerline, up to 100' AGL/946' MSL.

Trees beginning 3626' from DER, 502' right of centerline, up to 100' AGL/946' MSL.

Trees beginning 3812' from DER, 640' right of centerline, up to 100' AGL/966' MSL.

Buildings and trees beginning 4084' from DER, 1528' left of centerline, up to 100' AGL/966' MSL.

Buildings, vehicles, and trees beginning 4085' from DER, 974' right of centerline, up to 100' AGL/985' MSL.

Trees beginning 4273' from DER, 1161' right of centerline, up to 100' AGL/998' MSL.

Trees beginning 4559' from DER, 1340' right of centerline, up to 100' AGL/1018' MSL.

Buildings and trees beginning 4630' from DER, 1577' right of centerline, up to 100' AGL/1037' MSL.

Buildings, trees beginning 4826' from DER, 1559' right of centerline, up to 100' AGL/1064' MSL.

Buildings, vehicles, and trees beginning 5046' from DER, 1757' right of centerline, up to 100' AGL/1084' MSL.

Buildings, vehicles, and trees beginning 5503' from DER, 1946' right of centerline, up to 100' AGL/1103' MSL.

Tower 1.0 NM from DER, 155' right of centerline, 206' AGL/990' MSL.

Buildings, vehicles, and trees beginning 1.4 NM from DER, 2233' right of centerline, up to 100' AGL/1123' MSL.

Trees beginning 1.4 NM from DER, 2374' left of centerline, up to 100' AGL/1103' MSL.

Trees beginning 1.6 NM from DER, 2567' left of centerline, up to 100' AGL/1222' MSL.

Trees beginning 1.7 NM from DER, 2804' left of centerline, up to 100' AGL/1281' MSL.

Trees beginning 1.9 NM from DER, 2480' left of centerline, up to 100' AGL/1300' MSL.

Trees beginning 2.0 NM from DER, 3003' left of centerline, up to 100' AGL/1359' MSL.

**Rwy 36**, vehicles on road beginning from DER, from 130' left to 380' right of centerline, up to 15' AGL/802' MSL.

Trees beginning 61' from DER, from 264' left to 393' right of centerline, up to 100' AGL/887' MSL.

Trees beginning 67' from DER, 192' left of centerline, up to 100' AGL/907' MSL.

Trees beginning 101' from DER, 408' right of centerline, up to 100' AGL/907' MSL.

Trees beginning 112' from DER, 453' right of centerline, up to 100' AGL/926' MSL.

Trees beginning 181' from DER, 330' right of centerline, up to 100' AGL/946' MSL.

Trees beginning 1056' from DER, from 25' right to 854' left of centerline, up to 100' AGL/966' MSL.

Trees beginning 1485' from DER, from 37' right to 937' left of centerline, up to 100' AGL/985' MSL.

Trees beginning 1587' from DER, 381' left of centerline, up to 100' AGL/1005' MSL.

Trees beginning 1634' from DER, 455' left of centerline, up to 100' AGL/1024' MSL.

Trees beginning 1703' from DER, 429' left of centerline, up to 100' AGL/1044' MSL.

Trees beginning 1796' from DER, 292' left of centerline, up to 100' AGL/1064' MSL.

Trees beginning 1880' from DER, 352' left of centerline, up to 100' AGL/1084' MSL.

Trees beginning 4213' from DER, from 313' left to 1324' right of centerline, up to 100' AGL/1005' MSL.

Trees continuing from 5591' from DER, on rising hillside, 826' left of centerline, up to 100' AGL/1103' MSL.

Trees continuing from 5936' from DER, on rising hillside, 913' left of centerline, up to 100' AGL/1123' MSL.

Trees continuing from 1.0 NM from DER, on rising hillside, 992' left of centerline, up to 100' AGL/1162' MSL.

Trees continuing from 1.1 NM from DER, on rising hillside, 1158' left of centerline, up to 100' AGL/1202' MSL.

Trees continuing from 1.2 NM from DER, on rising hillside, 1335' left of centerline, up to 100' AGL/1241' MSL.

Trees beginning 1.2 NM from DER, 2305' right of centerline, up to 100' AGL/1064' MSL.

Trees continuing from 1.3 NM from DER, on rising hillside, 1486' left of centerline, up to 100' AGL/1340' MSL.

Trees continuing from 1.4 NM from DER, on rising hillside, 2436' left of centerline, up to 100' AGL/1399' MSL.

Trees 1.5 NM from DER, on hilltop, 2732' left of centerline, up to 100' AGL/1418' MSL.

## NEWPORT, RI

### NEWPORT STATE (UUU)

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

AMDT 3A 20DEC07 (07354) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 4**, 300-2¼ or std. with a min. climb of 230' per NM to 600, or alternatively, with standard takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 2100' prior to DER.

**Rwy 16**, 200-1 or std. w/ min. climb of 430' per NM to 400.

##### DEPARTURE PROCEDURE:

**Rwy 4**, climb heading 039° to 1200 before proceeding on course.

CON'T

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

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## NEWPORT, RI (CON'T) NEWPORT STATE (UUU) (CON'T)

### TAKEOFF OBSTACLE NOTES:

**Rwy 4**, trees beginning 1.7 NM from DER, 916' right of centerline, up to 100' AGL/459' MSL.

**Rwy 16**, tower 3782' from DER, 666' right of centerline, 100' AGL/285' MSL, tower 4203' from DER, 1100' right of centerline, 132' AGL/310' MSL.

**Rwy 34**, terrain 102' from DER, 424' right of centerline, 159' MSL.

Vehicle on road 726' from DER, 602' right of centerline

## NEWPORT, VT NORTHEAST KINGDOM INTL (EFK)

### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3A 12OCT17 (17285) (FAA)

#### TAKEOFF MINIMUMS:

**Rwy 18**, std. w/min. climb of 470' per NM to 2500 or 300-1 w/min. climb of 350' per NM to 3000 or 2300-3 for climb in visual conditions.

**Rwy 23**, std. w/min. climb of 320' per NM to 3200 or 2300-3 for climb in visual conditions.

**Rwy 36**, std. w/min. climb of 320' per NM to 3300 or 2300-3 for climb in visual conditions.

#### DEPARTURE PROCEDURE:

**Rwy 5**, climb heading 047° to 2200 before proceeding on course.

**Rwy 18**, climb heading 177° to 3000 before proceeding on course.

**Rwy 23**, climb heading 227° to 3000 before proceeding on course.

**Rwy 36**, climb heading 357° to 3300 before proceeding on course.

#### VCOA:

**Rwy 18, 23, 36**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Northeast Kingdom Intl airport at or above 3100 before proceeding on course.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 5**, vehicles on access road beginning 188' from DER, 232' left of centerline, up to 10' AGL/954' MSL.

Vehicles on road beginning 216' from DER, 530' right of centerline, up to 15' AGL/940' MSL.

Poles beginning 249' from DER, 85' right of centerline, up to 43' AGL/952' MSL.

**Rwy 18**, trees beginning at DER, left and right of centerline, up to 100' AGL/1103' MSL.

Trees beginning 1.4 NM from DER, 2704' right of centerline, up to 100' AGL/1142' MSL.

**Rwy 23**, trees beginning at DER, left and right of centerline, up to 100' AGL/1024' MSL.

Rising terrain beginning 6.3 NM from DER, 1.8 NM right of centerline, up to 2381' MSL.

**Rwy 36**, trees beginning 1897' from DER, 613' left of centerline, up to 100' AGL/1044' MSL.

Trees beginning 2962' from DER, 377' right of centerline, up to 100' AGL/1044' MSL.

Trees beginning 5850' from DER, 2049' left of centerline. Up to 100' AGL/1123' MSL.

Ridgeline beginning 3.3 NM from DER, 3031' left of centerline, up to 1515' MSL.

## NORRIDGEWOCK, ME

### CENTRAL MAINE/NORRIDGEWOCK (OWK)

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

AMDT 4 29MAY14 (21224) (FAA)

#### TAKEOFF MINIMUMS:

**Rwy 3**, 300-1½ or std. w/min. climb of 210' per NM to 500, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1300' prior to DER.

**Rwy 15**, std. w/min. climb of 235' per NM to 1100, or 1400-2½ for climb in visual conditions.

**Rwy 21**, std. w/min. climb of 285' per NM to 1000, or 1400-2½ for climb in visual conditions.

#### DEPARTURE PROCEDURE:

**Rwy 3**, climb heading 028° to 1200 before turning left.

**Rwy 15**, climb heading 148° to 1100 before proceeding on course or for climb in visual conditions: cross Central Maine/Norridgewock at or above 1500 before proceeding on course. When executing VCOA, notify ATC prior to departure.

**Rwy 21**, climb heading 208° to 1000 before proceeding on course or for climb in visual conditions: cross Central Maine/Norridgewock at or above 1500 before proceeding on course. When executing VCOA, notify ATC prior to departure.

**Rwy 33**, climbing right turn to 1900 direct AUG VOR/DME before proceeding on course.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 3**, trees beginning 3' from DER, 196' right of centerline, up to 100' AGL/439' MSL.

Trees beginning 139' from DER, 487' left of centerline, up to 100' AGL/367' MSL.

**Rwy 15**, trees beginning 248' from DER, 559' right of centerline, up to 100' AGL/349' MSL.

Trees beginning 477' from DER, 295' left of centerline, up to 100' AGL/369' MSL.

**Rwy 21**, trees beginning 15' from DER, 108' right of centerline, up to 100' AGL/399' MSL.

Trees beginning 523' from DER, 608' left of centerline, up to 100' AGL/409' MSL.

**Rwy 33**, trees beginning 4' from DER, 21' left of centerline, up to 100' AGL/359' MSL.

Trees beginning 264' from DER, 4' right of centerline, up to 100' AGL/379' MSL.

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## NORTH ADAMS, MA

### HARRIMAN-AND-WEST (AQW)

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

ORIG 12NOV15 (15316) (FAA)

#### TAKEOFF MINIMUMS:

**Rwy 11**, 1100-2¼ w/min. climb of 558' per NM to 4200 or std. w/min. climb of 830' per NM to 3600 or 3500-3 for climb in visual conditions.

**Rwy 29**, 900-3 w/min. climb of 660' per NM to 3800 or std. w/min. climb of 843' per NM to 3500 or 3500-3 for climb in visual conditions.

#### DEPARTURE PROCEDURE:

**Rwy 11**, climb heading 111° to 4000 before proceeding on course.

**Rwy 29**, climb heading 291° to 3800 before proceeding on course.

#### VCOA:

**Rwys 11, 29**, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Harriman-and-West airport at or above 4000 before proceeding on course.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 11**, building 3' from DER, 420' left of centerline, 15' AGL/664' MSL.

Pole and trees beginning 33' from DER, 360' right of centerline, up to 22' AGL/692' MSL.

Vehicles on road 49' from DER, crossing centerline, 15' AGL/661' MSL.

Multiple trees and building continuing from 149' from DER, left and right of centerline, up to 85' AGL/730' MSL.

Multiple trees, poles and buildings continuing from 198' from DER, left and right of centerline, up to 57' AGL/746' MSL.

Trees and poles continuing from 546' from DER, right and left of centerline, up to 71' AGL/760' MSL.

Multiple trees and buildings continuing from 607' from DER, right and left of centerline, up to 79' AGL/768' MSL.

Multiple trees and poles continuing from 794' from DER, from 708' right and across centerline, up to 92' AGL/781' MSL.

Multiple trees and building on rising hillside continuing from 1459' from DER from 843' right and across centerline, up to 64' AGL/793' MSL.

Trees on rising hillside continuing from 1625' from DER, from 880' right and across centerline, up to 79' AGL/827' MSL.

Trees on rising hillside continuing from 2010' from DER, from 1009' right and across centerline, up to 107' AGL/856' MSL.

Trees on rising hillside continuing from 2510' from DER, from 1169' right and across centerline, up to 93' AGL/882' MSL.

Trees on rising hillside continuing from 3537' from DER, 33' right of centerline, up to 80' AGL/907' MSL.

Trees on rising hillside continuing from 4322' from DER, 205' right of centerline, up to 69' AGL/955' MSL.

Trees on rising hillside continuing from 4809' from DER, 603' right of centerline, up to 65' AGL/971' MSL.

Trees on rising hillside continuing from 4842' from DER, 292' right of centerline, up to 89' AGL/995' MSL.

Trees on rising hillside continuing from 4975' from DER, 330' right of centerline, up to 74' AGL/1000' MSL.

Trees on rising hillside continuing from 5081' from DER, 408' right of centerline, up to 84' AGL/1009' MSL.

Trees on rising hillside continuing from 5178' from DER, 146' right of centerline, up to 79' AGL/1024' MSL.

Trees on rising hillside continuing from 5315' from DER, 114' right of centerline, up to 100' AGL/1065' MSL.

Trees on rising hillside continuing from 5443' from DER, 270' right of centerline, up to 108' AGL/1112' MSL.

Trees on rising hillside continuing from 5610' from DER, 10' right of centerline, up to 105' AGL/1129' MSL.

Trees on rising hillside continuing from 5767' from DER, crossing centerline, up to 80' AGL/1163' MSL.

Trees on rising hillside continuing from 5889' from DER, crossing centerline, up to 105' AGL/1188' MSL.

Trees near hilltop continuing from 1 NM from DER, crossing centerline, up to 90' AGL/1232' MSL.

Trees near hilltop continuing from 1.1 NM from DER, crossing centerline, up to 86' AGL/1287' MSL.

Trees on rising hillside and along hilltop continuing from 1.2 NM from DER, 3' right of centerline, up to 65' AGL/1306' MSL.

Trees on rising hillside continuing from 1.2 NM from DER, 7' left of centerline, up to 91' AGL/1294' MSL.

Trees on hilltop 1.9 NM from DER, 3504' right of centerline, up to 111' AGL/1705' MSL.

Transmission tower and transmission line 2 NM from DER, crossing centerline, 50' AGL/1527' MSL.

**Rwy 29**, pole 9' from DER, 49' right of centerline, 4' AGL/653' MSL.

Trees beginning 60' from DER, 314' left of centerline, up to 65' AGL/707' MSL.

Trees continuing from 143' from DER, left and right of centerline, up to 75' AGL/745' MSL.

Trees continuing from 427' from DER, left and right of centerline, up to 96' AGL/765' MSL.

Multiple buildings 827' from DER, 501' left of centerline, up to 28' AGL/717' MSL.

Trees and buildings continuing from 1061' from DER, 26' left of centerline, up to 94' AGL/782' MSL.

Trees and buildings continuing from 1487' from DER, 56' right of centerline, up to 76' AGL/726' MSL.

Trees and buildings continuing from 1667' from DER, left and right of centerline, up to 60' AGL/828' MSL.

Trees continuing from 1975' from DER, 18' left of centerline, up to 77' AGL/865' MSL.

Multiple trees, buildings, and vehicles, continuing from 2172' from DER, up to 99' AGL/886' MSL.

Trees on rising hillside continuing from 1.1 NM from DER, left and right of centerline, up to 80' AGL/966' MSL.

Trees on rising hillside continuing from 1.4 NM from DER, left and right of centerline, up to 93' AGL/1038' MSL.

Trees on rising hillside continuing from 1.5 NM from DER, left and right of centerline, up to 99' AGL/1043' MSL.

Trees on rising hillside continuing from 1.6 NM from DER, left and right of centerline, up to 112' AGL/1116' MSL.

Trees on rising hillside continuing from 1.6 NM from DER, left and right of centerline, up to 74' AGL/1197' MSL.

Trees on hilltop continuing from 1.7 NM from DER, left and right of centerline, up to 119' AGL/1215' MSL.

Trees on rising hillside continuing from 2.3 NM from DER, left and right of centerline, up to 75' AGL/1295' MSL.

Trees on rising hillside to hilltop continuing from 2.4 NM from DER, left and right of centerline, up to 51' AGL/1479' MSL.

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## NORTH KINGSTOWN, RI QUONSET STATE (OQU)

### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 1 10JAN13 (13010) (FAA)

#### TAKEOFF MINIMUMS:

- Rwy 5**, 300-1 or std w/min. climb of 402' per NM to 300.  
**Rwy 16**, 300-1 or std w/min. climb of 281' per NM to 300.

#### TAKEOFF OBSTACLE NOTES:

- Rwy 5**, rising terrain 63' from DER, left to right of centerline, up to 33' MSL.  
Ships beginning at DER, 220' right of centerline, up to 185' MSL.  
**Rwy 16**, rising terrain 22' from DER, left to right of centerline, up to 27' MSL.  
Ships beginning 71' from DER, 543' left of centerline, up to 185' MSL.  
**Rwy 23**, rising terrain 101' from DER, left to right of centerline, up to 33' MSL.  
Vehicles beginning 393' from DER, 4' left of centerline, 15' AGL/24' MSL.  
Trains beginning 398' from DER, 138' left of centerline, 23' AGL/31' MSL.  
Crane 1826' from DER, 924' right of centerline, 106' AGL/112' MSL.  
Ships beginning 415' from DER, 521' left of centerline, up to 185' MSL.  
**Rwy 34**, trees beginning 1073' from DER, 697' left of centerline, up to 80' AGL/112' MSL.

## NORTHAMPTON, MA

### NORTHAMPTON (7B2)

### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 4 13JAN11 (11013) (FAA)

#### TAKEOFF MINIMUMS:

- Rwy 14**, 1500-2½ for climb in visual conditions.  
**Rwy 32**, std. w/ min. climb of 286' per NM to 2000.

#### DEPARTURE PROCEDURE:

- Rwy 14**, for climb in visual conditions: cross Northampton Airport at or above 1500 before proceeding on course.  
**Rwy 32**, climb heading 323° to 2000 before proceeding on course.

#### TAKEOFF OBSTACLE NOTES:

- Rwy 14**, vehicle on road 5' from DER, 178' right of centerline, up to 17' AGL/136' MSL.  
Vehicle on road 35' from DER, 143' left of centerline, up to 17' AGL/136' MSL.  
Trees beginning 984' from DER, 476' left of centerline, up to 100' AGL/219' MSL.  
Numerous trees beginning 1.2 NM from DER, 1556' left and right of centerline, up sloping on Holyoke range, up to 100' AGL/909' MSL.  
**Rwy 32**, vehicle on road 256' from DER, up to 17' AGL/136' MSL.  
Building 176' from DER, 169' right of centerline 25' AGL/144' MSL.  
Trees beginning 85' from DER, 462' left of centerline, up to 100' AGL/219' MSL.  
Vehicle on road 1638' from DER, 116' left of centerline, 17' AGL/176' MSL.

## NORWOOD, MA

### NORWOOD MEML (OWD)

### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 8 12AUG21 (21224) (FAA)

#### TAKEOFF MINIMUMS:

- Rwy 10**, 400-2½ or std. w/min. climb of 335' per NM to 300.  
**Rwy 28**, 400-2 or std. w/min. climb of 385' per NM to 400.  
**Rwy 35**, 300-1¾ or std. w/min. climb of 230' per NM to 400, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1900' prior to DER.

#### DEPARTURE PROCEDURE:

- Rwy 10**, climb on heading 104° to 1100 before turning north.  
**Rwy 28**, climb on heading 275° to 700 before turning north.  
**Rwy 35**, climb on heading 320° to 1800 before turning east.

#### TAKEOFF OBSTACLE NOTES:

- Rwy 10**, vegetation beginning 13' from DER, 302' right of centerline, up to 12' AGL/52' MSL.  
Trees beginning 89' from DER, 115' left of centerline, up to 69' AGL/110' MSL.  
Tree, vegetation beginning 130' from DER, 135' right of centerline, up to 20' AGL/60' MSL.  
Trees beginning 662' from DER, 530' right of centerline, up to 59' AGL/101' MSL.  
Trees beginning 701' from DER, 132' left of centerline, up to 76' AGL/116' MSL.  
Trees beginning 1062' from DER, 15' right of centerline, up to 109' MSL.  
Trees beginning 1092' from DER, 65' left of centerline, up to 120' MSL.  
Trees beginning 1192' from DER, 79' right of centerline, up to 112' MSL.  
Trees beginning 1262' from DER, 14' right of centerline, up to 123' MSL.  
Trees beginning 1496' from DER, 70' left of centerline, up to 123' MSL.  
Trees beginning 1631' from DER, 26' left of centerline, up to 126' MSL.  
Trees beginning 2150' from DER, 32' left of centerline, up to 138' MSL.  
Trees beginning 2431' from DER, 57' right of centerline, up to 124' MSL.  
Trees beginning 2530' from DER, 50' right of centerline, up to 137' MSL.  
Trees beginning 2724' from DER, 47' left of centerline, up to 139' MSL.  
Tree 3125' from DER, 1332' left of centerline, 146' MSL.  
Tree 3320' from DER, 443' right of centerline, 140' MSL.  
Trees beginning 3539' from DER, 115' right of centerline, up to 173' MSL.  
Trees beginning 3786' from DER, 687' right of centerline, up to 176' MSL.

CON'T

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

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

21336

## NORWOOD, MA (CON'T) NORWOOD MEML (OWD) (CON'T)

**Rwy 10 (CON'T)**, tree 3792' from DER, 252' left of centerline, 147' MSL.  
 Trees beginning 3881' from DER, 918' right of centerline, up to 177' MSL.  
 Trees beginning 3961' from DER, 63' left of centerline, up to 159' MSL.  
 Trees beginning 4011' from DER, 599' right of centerline, up to 186' MSL.  
 Trees beginning 4117' from DER, 22' right of centerline, up to 209' MSL.  
 Trees beginning 4122' from DER, 171' left of centerline, up to 173' MSL.  
 Trees beginning 4198' from DER, 4' left of centerline, up to 182' MSL.  
 Trees beginning 4239' from DER, 286' right of centerline, up to 222' MSL.  
 Trees beginning 4288' from DER, 295' left of centerline, up to 190' MSL.  
 Trees beginning 4623' from DER, 432' right of centerline, up to 223' MSL.  
 Trees beginning 4676' from DER, 9' right of centerline, up to 229' MSL.  
 Trees beginning 5471' from DER, 780' left of centerline, up to 193' MSL.  
 Tree 5557' from DER, 1163' left of centerline, 202' MSL.  
 Trees beginning 5634' from DER, 708' left of centerline, up to 203' MSL.  
 Tree 5754' from DER, 1124' left of centerline, 204' MSL.  
 Trees beginning 5788' from DER, 84' left of centerline, up to 208' MSL.  
 Trees beginning 5882' from DER, 107' left of centerline, up to 213' MSL.  
 Tree 5932' from DER, 658' left of centerline, 217' MSL.  
 Trees beginning 5940' from DER, 12' left of centerline, up to 218' MSL.  
 Trees beginning 6075' from DER, 19' left of centerline, up to 219' MSL.  
 Trees beginning 1 NM from DER, 130' left of centerline, up to 223' MSL.  
 Trees beginning 1 NM from DER, 33' left of centerline, up to 227' MSL.  
 Trees beginning 1 NM from DER, 172' right of centerline, up to 230' MSL.  
 Trees beginning 1.1 NM from DER, 147' left of centerline, up to 235' MSL.  
 Trees beginning 1.1 NM from DER, 261' left of centerline, up to 237' MSL.  
 Trees beginning 1.1 NM from DER, 42' right of centerline, up to 239' MSL.  
 Trees beginning 1.1 NM from DER, 198' right of centerline, up to 246' MSL.  
 Trees beginning 1.1 NM from DER, 442' left of centerline, up to 239' MSL.  
 Trees beginning 1.1 nm from DER, 358' right of centerline, up to 250' MSL.  
 Trees beginning 1.1 NM from DER, 34' left of centerline, up to 240' MSL.  
 Trees beginning 1.1 NM from DER, 130' right of centerline, up to 253' MSL.  
 Trees beginning 1.1 NM from DER, 237' left of centerline, up to 243' MSL.  
 Trees beginning 1.1 NM from DER, 11' left of centerline, up to 248' MSL.  
 Trees beginning 1.1 NM from DER, 31' right of centerline, up to 107' AGL/257' MSL.  
 Trees beginning 1.1 NM from DER, 99' left of centerline, up to 254' MSL.  
 Pole 1.9 NM from DER, 2146' left of centerline, 115' AGL/355' MSL.  
**Rwy 17**, tree 42' from DER, 506' left of centerline, 33' AGL/76' MSL.  
 Vegetation 60' from DER, 306' right of centerline, 5' AGL/50' MSL.  
 Tree 69' from DER, 363' left of centerline, 34' AGL/83' MSL.  
 Vegetation beginning 85' from DER, 434' right of centerline, up to 12' AGL/54' MSL.  
 Trees beginning 88' from DER, 319' left of centerline, up to 42' AGL/92' MSL.  
 Tree 452' from DER, 439' right of centerline, 25' AGL/66' MSL.  
 Trees beginning 595' from DER, 509' right of centerline, up to 62' AGL/103' MSL.  
 Trees beginning 928' from DER, 627' left of centerline, up to 51' AGL/93' MSL.  
 Trees beginning 1033' from DER, 450' left of centerline, up to 57' AGL/98' MSL.  
 Tree 1309' from DER, 697' left of centerline, 61' AGL/102' MSL.  
 Trees beginning 1327' from DER, 276' left of centerline, up to 71' AGL/113' MSL.  
 Tree 1363' from DER, 645' right of centerline, 62' AGL/104' MSL.  
 Tree 1592' from DER, 745' right of centerline, 67' AGL/110' MSL.  
 Trees beginning 1720' from DER, 775' right of centerline, up to 73' AGL/117' MSL.  
 Trees beginning 1823' from DER, 244' left of centerline, up to 75' AGL/117' MSL.  
 Tree 1968' from DER, 796' right of centerline, 77' AGL/121' MSL.  
 Trees beginning 2044' from DER, 299' right of centerline, up to 82' AGL/127' MSL.  
 Trees beginning 2564' from DER, 479' right of centerline, up to 97' AGL/143' MSL.  
 Tree 2627' from DER, 352' left of centerline, 77' AGL/119' MSL.  
 Trees beginning 2716' from DER, 292' left of centerline, up to 81' AGL/124' MSL.  
 Trees beginning 2723' from DER, 141' right of centerline, up to 104' AGL/151' MSL.  
 Trees beginning 2787' from DER, 179' left of centerline, up to 95' AGL/137' MSL.  
 Trees beginning 2815' from DER, 877' right of centerline, up to 110' AGL/155' MSL.  
 Trees beginning 2939' from DER, 657' right of centerline, up to 157' MSL.  
 Trees beginning 3153' from DER, 996' right of centerline, up to 161' MSL.  
 Trees beginning 3297' from DER, 999' right of centerline, up to 180' MSL.  
**Rwy 28**, vegetation 15' from DER, 147' left of centerline, 4' AGL/51' MSL.  
 Vegetation beginning 98' from DER, 14' right of centerline, up to 7' AGL/54' MSL.  
 Vegetation 109' from DER, 301' left of centerline, 7' AGL/53' MSL.  
 Tree 114' from DER, 196' left of centerline, 17' AGL/62' MSL.  
 Building, vegetation beginning 162' from DER, 116' left of centerline, up to 23' AGL/71' MSL.  
 Building, vegetation, pole beginning 222' from DER, 198' left of centerline, up to 30' AGL/78' MSL.  
 Vegetation 258' from DER, 375' right of centerline, 12' AGL/56' MSL.  
 Tree 356' from DER, 170' right of centerline, 18' AGL/62' MSL.  
 Tree 361' from DER, 238' left of centerline, 33' AGL/81' MSL.  
 Trees, poles, building, vehicles on road beginning 376' from DER, 5' left of centerline, up to 40' AGL/86' MSL.  
 Vegetation 487' from DER, 612' right of centerline, 22' AGL/67' MSL.

CON'T

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

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

21336

## NORWOOD, MA (CON'T) NORWOOD MEML (OWD) (CON'T)

**Rwy 28 (CON'T)**, pole 511' from DER, 2' right of centerline, 23' AGL/73' MSL.

Trees, vehicles on road, pole beginning 532' from DER, 61' left of centerline, up to 39' AGL/89' MSL.

Trees, poles, vehicles on road beginning 544' from DER, 18' right of centerline, up to 38' AGL/87' MSL.

Trees, poles, vehicles on road beginning 600' from DER, 3' left of centerline, up to 58' AGL/104' MSL.

Trees, vehicles on road beginning 609' from DER, 121' right of centerline, up to 67' AGL/111' MSL.

Trees, poles, vehicles on road beginning 628' from DER, 32' right of centerline, up to 74' AGL/119' MSL.

Trees, vehicles on road, pole beginning 691' from DER, 23' right of centerline, up to 77' AGL/122' MSL.

Trees, vehicles on road beginning 753' from DER, 71' right of centerline, up to 84' AGL/129' MSL.

Tree, pole, vehicles on road beginning 810' from DER, 54' right of centerline, up to 86' AGL/131' MSL.

Trees, poles, stacks, buildings, vehicles on road beginning 834' from DER, 7' right of centerline, up to 86' AGL/132' MSL.

Tree, pole, stack, vehicles on road beginning 886' from DER, 100' left of centerline, up to 116' MSL.

Trees, vehicles on roads, stacks, poles, beginning 948' from DER, 6' left of centerline, up to 136' MSL.

Trees beginning 1634' from DER, 234' left of centerline, up to 138' MSL.

Trees, vehicles on road, stack, poles, terrain beginning 1662' from DER, 51' left of centerline, up to 142' MSL.

Trees, poles, vehicles on road, building beginning 1793' from DER, 53' left of centerline, up to 50' AGL/148' MSL.

Tree 1870' from DER, 341' right of centerline, 161' MSL.

Trees, vehicles on road, pole beginning 1884' from DER, 13' right of centerline, up to 172' MSL.

Trees, pole, vehicles on roads, building beginning 1957' from DER, 11' left of centerline, up to 156' MSL.

Trees, vehicles on road, stacks, building beginning 2008' from DER, 19' left of centerline, up to 157' MSL.

Trees, poles, vehicles on road beginning 2022' from DER, 30' right of centerline, up to 176' MSL.

Tree, stacks, vehicles on road beginning 2199' from DER, 7' left of centerline, up to 163' MSL.

Trees, stack beginning 2220' from DER, 181' right of centerline, up to 184' MSL.

Trees, vehicles on road, poles, stacks beginning 2237' from DER, 6' right of centerline, up to 186' MSL.

Tree 2323' from DER, 101' left of centerline, 172' MSL.

Tree 2330' from DER, 38' left of centerline, 173' MSL.

Trees, stack, tank, buildings, poles, vehicles on road beginning 2348' from DER, 38' left of centerline, up to 175' MSL.

Trees, poles, stacks, vehicles on roads beginning 2654' from DER, 44' left of centerline, up to 180' MSL.

Trees, vehicles on road, poles beginning 2795' from DER, 30' right of centerline, up to 188' MSL.

Trees, pole, vehicles on road beginning 2868' from DER, 41' left of centerline, up to 81' AGL/188' MSL.

Vehicles on road beginning 2928' from DER, 1' left of centerline, up to 90' AGL/198' MSL.

Trees, buildings, poles, stacks beginning 2990' from DER, 6' right of centerline, up to 198' MSL.

Trees, poles, stack, buildings beginning 3646' from DER, 21' right of centerline, up to 213' MSL.

Trees beginning 4151' from DER, 72' right of centerline, up to 218' MSL.

Trees beginning 4166' from DER, 154' right of centerline, up to 223' MSL.

Trees beginning 4314' from DER, 130' right of centerline, up to 224' MSL.

Trees, pole beginning 4363' from DER, 486' right of centerline, up to 232' MSL.

Tower, poles, trees, stacks, buildings beginning 4465' from DER, 72' right of centerline, up to 157' AGL/261' MSL.

Pole 5446' from DER, 631' left of centerline, 225' MSL.

Stacks, trees beginning 5558' from DER, 33' left of centerline, up to 117' AGL/234' MSL.

Spires, trees, building beginning 5780' from DER, 773' right of centerline, up to 262' MSL.

Spire, trees beginning 6044' from DER, 2' right of centerline, up to 143' AGL/284' MSL.

Spire, trees beginning 1.2 NM from DER, 298' left of centerline, up to 115' AGL/268' MSL.

Trees beginning 1.2 NM from DER, 150' right of centerline, up to 287' MSL.

Spire, trees beginning 1.2 NM from DER, 36' left of centerline, up to 283' MSL.

Trees beginning 1.2 NM from DER, 38' right of centerline, up to 300' MSL.

Trees beginning 1.3 NM from DER, 611' right of centerline, up to 302' MSL.

Trees beginning 1.3 NM from DER, 27' right of centerline, up to 307' MSL.

Trees beginning 1.4 NM from DER, 7' left of centerline, up to 291' MSL.

Trees beginning 1.4 NM from DER, 142' right of centerline, up to 318' MSL.

Trees beginning 1.5 NM from DER, 46' right of centerline, up to 319' MSL.

Tree 1.5 NM from DER, 186' left of centerline, 294' MSL.

Trees beginning 1.5 NM from DER, 78' left of centerline, up to 296' MSL.

Trees beginning 1.5 nm from DER, 417' left of centerline, up to 100' AGL/297' MSL.

Trees, building beginning 1.5 NM from DER, 3' right of centerline, up to 324' MSL.

Tree 1.6 NM from DER, 1242' left of centerline, 88' AGL/301' MSL.

Trees, stack beginning 1.6 nm from DER, 134' right of centerline, up to 82' AGL/325' MSL.

Building, trees, stack beginning 1.6 NM from DER, 78' left of centerline, up to 71' AGL/315' MSL.

Tree 1.6 NM from DER, 381' right of centerline, 326' MSL.

Trees, building, tank beginning 1.6 NM from DER, 117' right of centerline, up to 88' AGL/335' MSL.

Tower, antennas, tree beginning 1.6 nm from DER, 720' right of centerline, up to 132' AGL/386' MSL.

Tree 1.7 NM from DER, 1255' left of centerline, 314' MSL.

**Rwy 35**, sign beginning 20' from DER, 198' left of centerline, up to 3' AGL/50' MSL.

Tree, vegetation beginning 23' from DER, 276' right of centerline, up to 25' AGL/71' MSL.

Vegetation 118' from DER, 468' left of centerline, 9' AGL/54' MSL.

Trees beginning 278' from DER, 559' right of centerline, up to 49' AGL/92' MSL.

Tree 382' from DER, 580' left of centerline, 26' AGL/70' MSL.

Tree 599' from DER, 588' right of centerline, 58' AGL/101' MSL.

Tree 601' from DER, 478' left of centerline, 34' AGL/78' MSL.

Trees beginning 636' from DER, 17' left of centerline, up to 78' AGL/123' MSL.

Trees beginning 683' from DER, 68' right of centerline, up to 78' AGL/121' MSL.

Trees beginning 1494' from DER, 1' right of centerline, up to 128' MSL.

Trees beginning 2285' from DER, 148' right of centerline, up to 132' MSL.

Trees beginning 2792' from DER, 421' left of centerline, up to 75' AGL/124' MSL.

**CON'T**

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

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

21336

## NORWOOD, MA (CON'T)

### NORWOOD MEML (OWD) (CON'T)

**Rwy 35 (CON'T)**, trees beginning 2876' from DER, 359' left of centerline, up to 125' MSL.  
Trees beginning 2949' from DER, 516' left of centerline, up to 130' MSL.  
Trees beginning 3123' from DER, 367' left of centerline, up to 83' AGL/133' MSL.  
Tree 3392' from DER, 1343' right of centerline, 137' MSL.  
Tree 3531' from DER, 1392' right of centerline, 144' MSL.  
Trees beginning 3658' from DER, 1317' right of centerline, up to 154' MSL.  
Tree 3969' from DER, 1326' right of centerline, 157' MSL.  
Trees beginning 3997' from DER, 1283' right of centerline, up to 173' MSL.  
Pole 5686' from DER, 769' right of centerline, 150' AGL/211' MSL.  
Pole 5857' from DER, 936' right of centerline, 155' AGL/216' MSL.  
Tree 1 NM from DER, 2250' left of centerline, 219' MSL.  
Tree 1.1 NM from DER, 2230' left of centerline, 223' MSL.  
Tree 1.1 NM from DER, 2126' left of centerline, 227' MSL.  
Trees beginning 1.1 NM from DER, 1973' left of centerline, up to 234' MSL.  
Tree 1.1 NM from DER, 1878' left of centerline, 244' MSL.  
Trees beginning 1.1 NM from DER, 1473' left of centerline, up to 246' MSL.  
Tree 1.2 NM from DER, 2017' left of centerline, 248' MSL.  
Trees beginning 1.2 NM from DER, 1377' left of centerline, up to 257' MSL.  
Trees, stack beginning 1.2 NM from DER, 1245' left of centerline, up to 262' MSL.  
Trees beginning 1.2 NM from DER, 1239' left of centerline, up to 265' MSL.  
Trees beginning 1.3 NM from DER, 2600' left of centerline, up to 282' MSL.

## OLD TOWN, ME

### DEWITT FLD/OLD TOWN MUNI (OLD)

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

ORIG 27SEP07 (21112) (FAA)

#### TAKEOFF OBSTACLE NOTES:

**Rwy 4**, trees beginning 61' from DER, 337' right of centerline, up to 80' AGL/239' MSL.  
Trees beginning 281' from DER 363' left of centerline, up to 80' AGL/199' MSL.  
**Rwy 12**, trees beginning 338' from DER, 33' right of centerline, up to 80' AGL/259' MSL.  
**Rwy 22**, trees beginning 223' from DER, 296' left of centerline, up to 80' AGL/239' MSL.  
Trees beginning 514' from DER, 184' right of centerline, up to 80' AGL/209' MSL.  
**Rwy 30**, trees beginning 952' from DER, 55' left of centerline, up to 80' AGL/199' MSL.

## ORANGE, MA

### ORANGE MUNI (ORE)

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

AMDT 1 31MAY12 (12152) (FAA)

#### TAKEOFF MINIMUMS:

**Rwy 1**, std. w/min. climb of 325' per NM to 1800 or 1300-2½ for climb in visual conditions.  
**Rwy 14**, 400-1½ w/ min. climb of 270' per NM to 1800 or std. w/min. climb of 500' per NM to 1200 or 1300-2 ½ for climb in visual conditions.  
**Rwy 19**, 300-1 ¾ or std. w/min. climb of 240' per NM to 900.  
**Rwy 32**, 400-2 ¼ w/ min. climb of 265' per NM to 1700 or std. w/min. climb of 340' per NM to 1700 or 1300-2 ½ for climb in visual conditions.

#### DEPARTURE PROCEDURE:

**Rwy 1**, climb heading 016° to 1800 before proceeding on course. For climb in visual conditions: cross Orange Muni Airport at or above 1700 MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.  
**Rwy 14**, climb heading 142° to 2000 before proceeding on course. For climb in visual conditions: cross Orange Muni Airport at or above 1700 MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.  
**Rwy 19**, climb heading 196° to 1500 before proceeding on course.  
**Rwy 32**, climb heading 322° to 1700 before proceeding on course. For climb in visual conditions: cross Orange Muni Airport at or above 1700 MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 1**, pole and trees beginning 272' from DER, 6' left of centerline, up to 92' AGL/624' MSL.  
Terrain and trees beginning 5' from DER, 23' right of centerline, up to 100' AGL/632' MSL.  
**Rwy 14**, trees beginning 186' from DER, 15' left of centerline, up to 90' AGL/699' MSL.  
Buildings and trees beginning 48' from DER, 23' right of centerline, up to 94' AGL/703' MSL.  
Tower 5889' from DER, 1606' left of centerline, 88' AGL/926' MSL.  
Trees 1.1 NM from DER, 2138' left of centerline, up to 70' AGL/817' MSL.  
**Rwy 19**, trees beginning 164' from DER, 28' left of centerline, up to 94' AGL/667' MSL.  
Trees beginning 1130' from DER, 23' right of centerline, up to 96' AGL/705' MSL.  
Trees 1.1 NM from DER, 1931' right of centerline, up to 83' AGL/751' MSL.  
Trees 1.2 NM from DER, 2125' right of centerline, up to 112' AGL/781' MSL.  
Trees 1.4 NM from DER, 1927' right of centerline, up to 84' AGL/772' MSL.  
**Rwy 32**, trees beginning 14' from DER, 87' left of centerline, up to 91' AGL/680' MSL.  
Trees beginning 521' from DER, 13' right of centerline, up to 95' AGL/618' MSL.  
Trees 1.2 NM from DER, 2366' left of centerline, up to 94' AGL/841' MSL.  
Trees 1.7 NM from DER, 3315' right of centerline, up to 61' AGL/906' MSL.

02 DEC 2021 to 30 DEC 2021

02 DEC 2021 to 30 DEC 2021

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

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


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**OXFORD, CT****WATERBURY-OXFORD (OXC)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

AMDT 6 03JAN19 (19003) (FAA)

**TAKEOFF MINIMUMS:****Rwy 36**, 300-1¼ or std. w/min. climb of 340' per NM to 1000.**TAKEOFF OBSTACLE NOTES:****Rwy 18**, trees beginning 29' from DER, 384' right of centerline, up to 699' MSL.

Trees beginning 151' from DER, 120' left of centerline, up to 703' MSL.

Trees beginning 264' from DER, 12' right of centerline, up to 703' MSL.

Trees beginning 281' from DER, 87' left of centerline, up to 707' MSL.

Trees beginning 288' from DER, 8' right of centerline, up to 704' MSL.

Trees beginning 290' from DER, 19' left of centerline, up to 712' MSL.

Tree 341' from DER, 303' left of centerline, 714' MSL.

Trees beginning 342' from DER, 16' left of centerline, up to 73' AGL/718' MSL.

Tower, tree beginning 509' from DER, 213' left of centerline, up to 82' AGL/733' MSL.

Transmission line, trees beginning 513' from DER, 4' left of centerline, up to 81' AGL/734' MSL.

Trees beginning 659' from DER, 28' right of centerline, up to 706' MSL.

Trees beginning 686' from DER, 20' right of centerline, up to 708' MSL.

Trees beginning 780' from DER, 48' right of centerline, up to 709' MSL.

Trees beginning 862' from DER, 12' right of centerline, up to 712' MSL.

Trees beginning 957' from DER, 151' left of centerline, up to 746' MSL.

Trees beginning 963' from DER, 25' left of centerline, up to 762' MSL.

Trees, tower, transmission line beginning 1026' from DER, 158' left of centerline, up to 765' MSL.

Tree 1273' from DER, 254' right of centerline, 715' MSL.

Tree 1351' from DER, 198' right of centerline, 718' MSL.

Trees beginning 1373' from DER, 174' right of centerline, up to 720' MSL.

Trees beginning 1606' from DER, 245' left of centerline, up to 768' MSL.

Trees beginning 1648' from DER, 400' left of centerline, up to 76' AGL/776' MSL.

Trees beginning 1806' from DER, 74' left of centerline, up to 777' MSL.

Tree 2151' from DER, 35' right of centerline, 736' MSL.

Trees beginning 2156' from DER, 6' right of centerline, up to 742' MSL.

Trees beginning 2191' from DER, 323' left of centerline, up to 95' AGL/780' MSL.

Trees beginning 2378' from DER, 349' left of centerline, up to 783' MSL.

Trees beginning 2604' from DER, 377' left of centerline, up to 786' MSL.

Tree 3396' from DER, 666' left of centerline, 788' MSL.

Trees beginning 3537' from DER, 731' left of centerline, up to 798' MSL.

**Rwy 36**, tree 55' from DER, 451' left of centerline, 55' AGL/736' MSL.

Trees beginning 126' from DER, 381' left of centerline, up to 750' MSL.

Trees beginning 403' from DER, 228' left of centerline, up to 751' MSL.

Tree 465' from DER, 534' right of centerline, 65' AGL/748' MSL.

Trees beginning 479' from DER, 346' right of centerline, up to 761' MSL.

Tree 625' from DER, 371' left of centerline, 754' MSL.

Trees beginning 768' from DER, 185' right of centerline, up to 94' AGL/765' MSL.

Tree 3334' from DER, 1392' right of centerline, 849' MSL.

Trees beginning 3572' from DER, 1165' right of centerline, up to 868' MSL.

Trees beginning 3739' from DER, 1195' right of centerline, up to 80' AGL/888' MSL.

Trees beginning 3866' from DER, 0' of centerline, up to 85' AGL/891' MSL.

Tree 5049' from DER, 53' left of centerline, 858' MSL.

Tree 5051' from DER, 13' left of centerline, 860' MSL.

Tree 5087' from DER, 48' left of centerline, 865' MSL.

Trees beginning 5109' from DER, 32' left of centerline, up to 867' MSL.

Trees beginning 5142' from DER, 14' left of centerline, up to 873' MSL.

Trees beginning 5200' from DER, 50' left of centerline, up to 874' MSL.

Tree 5245' from DER, 52' left of centerline, 877' MSL.

Trees beginning 5274' from DER, 3' left of centerline, up to 880' MSL.

Trees beginning 5303' from DER, 25' left of centerline, up to 882' MSL.

Trees beginning 5326' from DER, 0' left of centerline, up to 884' MSL.

Trees beginning 5480' from DER, 16' right of centerline, up to 883' MSL.

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


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

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## OXFORD, ME

OXFORD COUNTY RGNL (81B)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 05JUL07 (07186) (FAA)

TAKEOFF MINIMUMS:

**Rwy 15**, 600-3 or 1800-2½ for climb in visual conditions.

**Rwy 33**, std. w/ min. climb of 475' per NM to 2000, or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE:

**Rwy 15**, climb heading 149° to 1300 before proceeding on course or for climb in visual conditions cross Oxford County Rgnl Airport at or above 2000 before proceeding on course.

**Rwy 33**, climb heading 329° to 2000 before proceeding on course or for climb in visual conditions cross Oxford County Rgnl Airport at or above 2000 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

**Rwy 15**, multiple trees beginning 3607' from DER, 572' left of centerline, up to 100' AGL/679' MSL.

Multiple assumed obstacles beginning 1.7 NM from DER, 1478' left of centerline, up to 200' AGL/849' MSL.

**Rwy 33**, multiple trees beginning 4121' from DER, 70' left of centerline, up to 100' AGL/499' MSL.

Multiple trees beginning 5446' from DER, 239' right of centerline, up to 100' AGL/719' MSL.

Multiple assumed obstacles beginning 1.6 NM from DER, 393' right of centerline, up to 200' AGL/1079' MSL.

## PAWTUCKET, RI

NORTH CENTRAL STATE (SFZ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 07MAR13 (13066) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 5**, tree 103' from DER, 233' right of centerline, 34' AGL/434' MSL.

Windssock abeam DER, 233' right of centerline, 16' AGL/428' MSL.

Bush 40' from DER, 249' left of centerline, 28' AGL/428' MSL.

Pole 25' from DER, 505' left of centerline, 78' AGL/439' MSL.

Tree 346' from DER, 569' left of centerline, 87' AGL/438' MSL.

**Rwy 15**, trees beginning 148' from DER, 32' left of centerline, up to 74' AGL/523' MSL.

Trees beginning 119' from DER, 417' right of centerline, up to 93' AGL/552' MSL.

Pole 200' from DER, 286' right of centerline, 74' AGL/504' MSL.

Tree 2569' from DER, on centerline, 67' AGL/516' MSL.

**Rwy 23**, trees beginning 144' from DER, 278' left of centerline, up to 90' AGL/480' MSL.

Pole 171' from DER, 511' left of centerline, 85' AGL/475' MSL.

Trees beginning 916' from DER, 602' right of centerline, 87' AGL/456' MSL.

Pole 176' from DER, 507' right of centerline, 65' AGL/446' MSL.

**Rwy 33**, trees beginning 58' from DER, 80' left of centerline, up to 45' AGL/554' MSL.

Poles beginning 291' from DER, 207' left of centerline, up to 80' AGL/490' MSL.

Trees beginning 23' from DER, 504' right of centerline, up to 75' AGL/494' MSL.

Trees beginning 819' from DER, 415' right of centerline, up to 94' AGL/504' MSL.

Poles beginning 827' from DER, 523' right of centerline, up to 44' AGL/464' MSL.

## PLAINVILLE CT

ROBERTSON FIELD (4B8)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 30APR15 (15120) (FAA)

TAKEOFF MINIMUMS:

**Rwy 2**, std. w/min. climb of 220' per NM to 2400, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

**Rwy 2**, climb heading 019° to 2400 before turning right.

**Rwy 20**, climb heading 199° to 1800 before proceeding on course.

VCOA:

**Rwy 2**, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Robertson field at or above 2300 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

**Rwy 2**, trees beginning 6' from DER, 143' left of centerline, up to 96' AGL/267' MSL.

Poles and trees beginning 128' from DER, 143' right of centerline, up to 102' AGL/273' MSL.

Trees beginning 2018' from DER, 128' right of centerline, up to 118' AGL/329' MSL.

Trees beginning 2038' from DER, 786' left of centerline, up to 128' AGL/349' MSL.

**Rwy 20**, trees, poles and buildings beginning 46' from DER, 23' left of centerline, up to 71' AGL/262' MSL.

Trees beginning 356' from DER, 99' right of centerline, up to 61' AGL/252' MSL.

Trees beginning 2020' from DER, 10' right of centerline, up to 71' AGL/262' MSL.

Trees and poles beginning 2025' from DER, 247' left of centerline, up to 98' AGL/289' MSL.

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

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

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## PITTSFIELD, MA

### PITTSFIELD MUNI (PSF)

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

AMDT 2A 28FEB19 (19059) (FAA)

#### TAKEOFF MINIMUMS:

**Rwys 14, 32, NA.****Rwy 8,** 1100-2 or std. w/min. climb of 270' per NM to 2500.**Rwy 26,** 800-2 or std. w/min. climb of 360' per NM to 2100.

#### DEPARTURE PROCEDURE:

**Rwy 8,** climb runway heading to 2000, then climbing right turn via CTR R-331 to 3000 before proceeding on course.**Rwy 26,** climb runway heading to 2400 before proceeding on course.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 8,** pole 75' from DER, 35' right of centerline, 17' AGL/1136' MSL.

Pole 164' from DER, 107' right of centerline, 30' AGL/1146' MSL.

Trees beginning 310' from DER, 457' right of centerline, up to 64' AGL/1185' MSL.

## PITTSFIELD, ME

### PITTSFIELD MUNI (2B7)

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

AMDT 2A 09FEB12 (12040) (FAA)

#### DEPARTURE PROCEDURE:

**Rwy 36,** 300-1¼ or std w/min. climb of 220' per NM to 500.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 18,** trees beginning 86' from DER, left and right of centerline, up to 80' AGL/259' MSL.**Rwy 36,** aircraft 49' from DER, 156' left of centerline, 17' AGL/216' MSL.

Vehicle 139' from DER, 452' left of centerline, 15' AGL/214' MSL.

Building, trees and poles beginning 63' from DER, 15' right of centerline, up to 77' AGL/357' MSL.

Trees, poles and buildings beginning 106' from DER, 39' left of centerline, up to 82' AGL/312' MSL.

## PLYMOUTH, MA

### PLYMOUTH MUNI (PYM)

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

AMDT 3 19JUL18 (18200) (FAA)

#### DEPARTURE PROCEDURE:

**Rwy 6,** climb heading 056° to 800 before turning left.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 6,** sign at DER, 248' right of centerline, 7' AGL/149' MSL.

Tree 5' from DER, 443' right of centerline, 167' MSL.

Trees, buildings, pole beginning 32' from DER, 215' left of centerline, up to 22' AGL/173' MSL.

Trees beginning 141' from DER, 379' right of centerline, up to 171' MSL.

Trees beginning 293' from DER, 338' right of centerline, up to 172' MSL.

Trees beginning 594' from DER, 324' right of centerline, up to 32' AGL/181' MSL.

Trees beginning 722' from DER, 322' right of centerline, up to 225' MSL.

Building 779' from DER, 643' left of centerline, 23' AGL/175' MSL.

Trees, building beginning 781' from DER, 324' left of centerline, up to 41' AGL/190' MSL.

Tree 1163' from DER, 584' left of centerline, 209' MSL.

Trees beginning 1166' from DER, 342' left of centerline, up to 229' MSL.

Trees beginning 1173' from DER, right of centerline, up to 83' AGL/233' MSL.

Trees beginning 1345' from DER, 5' left of centerline, up to 233' MSL.

Trees beginning 3043' from DER, 295' left of centerline, up to 238' MSL.

Trees beginning 3251' from DER, 223' left of centerline, up to 240' MSL.

Tree 3363' from DER, 708' right of centerline, 238' MSL.

Tree 3556' from DER, 590' right of centerline, 241' MSL.

**Rwy 15,** terrain 14' from DER, 480' left of centerline, 134' MSL.

Traverse way beginning 25' from DER, 410' right of centerline, up to 145' MSL.

Pole, traverse way beginning 209' from DER, 323' right of centerline, up to 164' MSL.

Tree 260' from DER, 283' left of centerline, 177' MSL.

Trees beginning 265' from DER, 459' right of centerline, up to 170' MSL.

Tree 382' from DER, 529' left of centerline, 198' MSL.

Trees, electrical system beginning 412' from DER, 359' right of centerline, up to 192' MSL.

Trees, electrical system beginning 540' from DER, 328' right of centerline, up to 197' MSL.

Trees beginning 550' from DER, 291' left of centerline, up to 208' MSL.

Trees beginning 607' from DER, 327' left of centerline, up to 210' MSL.

Tree, electrical system beginning 641' from DER, 637' right of centerline, up to 199' MSL.

Trees beginning 769' from DER, 440' right of centerline, up to 203' MSL.

Tree 884' from DER, 408' right of centerline, 204' MSL.

Tree 936' from DER, 565' right of centerline, 211' MSL.

Trees, poles beginning 977' from DER, 4' right of centerline, up to 222' MSL.

Trees beginning 1165' from DER, 3' left of centerline, up to 86' AGL/217' MSL.

Trees beginning 2064' from DER, 59' right of centerline, up to 79' AGL/225' MSL.

Trees beginning 2221' from DER, 625' left of centerline, up to 223' MSL.

Trees beginning 2463' from DER, 738' left of centerline, up to 103' AGL/228' MSL.

Trees beginning 2520' from DER, 758' left of centerline, up to 95' AGL/230' MSL.

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

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

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## PLYMOUTH, MA (CON'T) PLYMOUTH MUNI (PYM) (CON'T)

**Rwy 15 (CON'T)**, tree 3780' from DER, 1160' left of centerline, 71' AGL/232' MSL.

Tree 3860' from DER, 1237' left of centerline, 76' AGL/235' MSL.

Tree 4028' from DER, 1048' left of centerline, 68' AGL/239' MSL.

Trees beginning 4039' from DER, 1146' left of centerline, up to 75' AGL/242' MSL.

Trees beginning 4187' from DER, 1294' left of centerline, up to 83' AGL/245' MSL.

Tree 4283' from DER, 1572' left of centerline, 86' AGL/246' MSL.

Trees beginning 4557' from DER, 737' right of centerline, up to 74' AGL/252' MSL.

Tree 4558' from DER, 117' left of centerline, 71' AGL/249' MSL.

Trees beginning 4594' from DER, 12' left of centerline, up to 72' AGL/257' MSL.

Tree 4631' from DER, 180' right of centerline, 84' AGL/253' MSL.

Trees beginning 4655' from DER, 78' right of centerline, up to 83' AGL/256' MSL.

Tree 4689' from DER, 96' left of centerline, 75' AGL/261' MSL.

Trees beginning 4708' from DER, 83' left of centerline, up to 79' AGL/266' MSL.

Tree 4741' from DER, 519' right of centerline, 82' AGL/259' MSL.

Tree 4777' from DER, 430' right of centerline, 85' AGL/260' MSL.

Trees beginning 4786' from DER, 17' right of centerline, up to 80' AGL/261' MSL.

Trees beginning 4790' from DER, 86' right of centerline, up to 89' AGL/263' MSL.

**Rwy 24**, electrical system 5' from DER, 10' right of centerline, 1' AGL/136' MSL.

Poles, tree beginning 806' from DER, 613' right of centerline, up to 56' AGL/186' MSL.

Trees, pole beginning 1432' from DER, 549' right of centerline, up to 201' MSL.

Tree 1504' from DER, 887' left of centerline, 190' MSL.

Tree 1835' from DER, 917' left of centerline, 194' MSL.

Tree 1879' from DER, 897' right of centerline, 204' MSL.

Trees beginning 1903' from DER, 489' right of centerline, up to 207' MSL.

Trees beginning 1941' from DER, 910' left of centerline, up to 197' MSL.

Tree 2202' from DER, 994' left of centerline, 207' MSL.

Trees beginning 2226' from DER, 523' left of centerline, up to 208' MSL.

Tree 2298' from DER, 588' right of centerline, 208' MSL.

Trees beginning 2299' from DER, 478' right of centerline, up to 209' MSL.

Trees beginning 2500' from DER, 402' right of centerline, up to 211' MSL.

Tree 2594' from DER, 597' left of centerline, 212' MSL.

Trees beginning 2649' from DER, 572' left of centerline, up to 213' MSL.

Trees beginning 2940' from DER, 606' right of centerline, up to 213' MSL.

Tree 3057' from DER, 476' right of centerline, 217' MSL.

**Rwy 33**, pole, traverse way beginning 1' from DER, 254' left of centerline, up to 20' AGL/162' MSL.

Terrain 22' from DER, 238' right of centerline, 146' MSL.

Pole, traverse way, trees beginning 72' from DER, 267' left of centerline, up to 38' AGL/180' MSL.

Stacks, buildings beginning 123' from DER, 337' right of centerline, up to 20' AGL/167' MSL.

Buildings, stack beginning 267' from DER, 301' right of centerline, up to 168' MSL.

Poles, electrical system beginning 595' from DER, 457' right of centerline, up to 36' AGL/178' MSL.

Trees, electrical system, pole beginning 699' from DER, 68' left of centerline, up to 47' AGL/189' MSL.

Trees, electrical system, buildings, poles beginning 699' from DER, 56' right of centerline, up to 72' AGL/211' MSL.

Tree 785' from DER, 576' left of centerline, 202' MSL.

Trees beginning 797' from DER, 133' left of centerline, up to 67' AGL/210' MSL.

Trees beginning 828' from DER, 430' left of centerline, up to 70' AGL/215' MSL.

Trees, pole beginning 877' from DER, 16' left of centerline, up to 76' AGL/221' MSL.

Tree 920' from DER, 525' right of centerline, 74' AGL/218' MSL.

Trees, poles beginning 929' from DER, 9' right of centerline, up to 77' AGL/223' MSL.

Trees beginning 2182' from DER, 558' right of centerline, up to 73' AGL/234' MSL.

Trees beginning 2362' from DER, 153' left of centerline, up to 81' AGL/223' MSL.

Trees beginning 2375' from DER, 106' left of centerline, up to 76' AGL/227' MSL.

Trees, electrical system beginning 2378' from DER, 11' right of centerline, up to 82' AGL/240' MSL.

Trees, pole beginning 2491' from DER, 23' right of centerline, up to 77' AGL/242' MSL.

Trees beginning 2508' from DER, 25' left of centerline, up to 85' AGL/238' MSL.

Trees beginning 3543' from DER, 38' left of centerline, up to 106' AGL/242' MSL.

## PORTLAND, ME

### PORTLAND INTL JETPORT (PWM)

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

AMDT 7 10DEC15 (15344) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 11**, 300-1/4 or std. w/min. climb of 272' per NM to 400.

**Rwy 36**, 400-2/4 or std. w/min. climb of 235' per NM to 600.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 11**, tree 481' from DER, 563' right of centerline, 32' AGL/69' MSL.

Tree 650' from DER, 551' left of centerline, 25' AGL/67' MSL.

Trees beginning 5943' from DER, 1152' left of centerline, up to 189' AGL/230' MSL.

Trees beginning 1 NM from DER, 2025' left of centerline, up to 186' AGL/228' MSL.

Trees beginning 1 NM from DER, 1660' left of centerline, up to 209' AGL/251' MSL.

**Rwy 18**, tree 107' from DER, 522' right of centerline, 33' AGL/77' MSL.

Tree 178' from DER, 481' right of centerline, 38' AGL/82' MSL.

Trees beginning 207' from DER, left and right of centerline, up to 57' AGL/78' MSL.

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

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

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## PORTLAND, ME (CON'T)

### PORTLAND INTL JETPORT (PWM) (CON'T)

**Rwy 18 (CON'T)**, trees beginning 403' from DER, 503' right of centerline, up to 66' AGL/110' MSL.

Trees beginning 1038' from DER, left and right of centerline, up to 65' AGL/109' MSL.

Trees beginning 1257' from DER, left and right of centerline, up to 83' AGL/127' MSL.

Trees beginning 1676' from DER, 217' right of centerline, up to 99' AGL/143' MSL.

Trees beginning 4242' from DER, 1132' right of centerline, up to 124' AGL/168' MSL.

**Rwy 29**, trees beginning 1301' from DER, 789' left of centerline, up to 47' AGL/122' MSL.

Trees 2185' from DER, 830' left of centerline, up to 74' AGL/149' MSL.

Trees beginning 2742' from DER, 811' right of centerline, up to 83' AGL/180' MSL.

Trees beginning 3103' from DER, 1245' left of centerline, up to 114' AGL/189' MSL.

Trees beginning 4218' from DER, 1382' left of centerline, up to 129' AGL/204' MSL.

**Rwy 36**, building 11' from DER, 149' left of centerline, 2' AGL/46' MSL.

Fence 23' from DER, 495' left of centerline, 21' AGL/68' MSL.

Vehicles on road, beginning 196' from DER, 251' left of centerline, up to 17' AGL/56' MSL.

Trees beginning 364' from DER, 87' left of centerline, up to 60' AGL/73' MSL.

Trees beginning 21' from DER, 252' left of centerline, up to 56' AGL/101' MSL.

Trees beginning 238' from DER, 515' left of centerline, up to 68' AGL/112' MSL.

Trees beginning 1281' from DER, 832' right of centerline, up to 85' AGL/129' MSL.

Trees beginning 1699' from DER, 450' right of centerline, up to 76' AGL/121' MSL.

Trees beginning 2298' from DER, 848' left of centerline, up to 81' AGL/125' MSL.

Tree 3545' from DER, 1437' left of centerline, 93' AGL/138' MSL.

## PORTSMOUTH, NH

### PORTSMOUTH INTL AT PEASE (PSM)

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

ORIG-A 05APR12 (12096) (FAA)

DEPARTURE PROCEDURE:

**Rwy 16**, climb heading 165° to 600 before turning left.

TAKEOFF OBSTACLE NOTES:

**Rwy 34**, building 519' from DER, 439' right of centerline, 16' AGL/115' MSL.

Trees beginning 2752' from DER, 1090' right of centerline, 90' AGL/170' MSL.

## PRESQUE ISLE, ME

### PRESQUE ISLE INTL (PQI)

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

AMDT 7 02DEC21 (21336) (FAA)

TAKEOFF MINIMUMS:

**Rwy 1**, 300-1½ w/min. climb of 230' per NM to 1200, or std. w/min. climb of 465' per NM to 800, or 1100-3 for VCOA.

**Rwy 10**, 300-1½ or std. w/min. climb of 280' per NM to 900.

**Rwy 19**, std. w/min. climb of 275' per NM to 1600, or 1100-3 for VCOA.

**Rwy 28**, 300-1½ w/min. climb of 225' per NM to 1600, or std. w/min. climb of 260' per NM to 1000, or 1100-3 for VCOA.

DEPARTURE PROCEDURE:

**Rwy 10**, climb heading 093° to 1600 before proceeding on course.

VCOA:

**Rwys 1, 19, 28**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Presque Isle Intl at or above 1500 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

**Rwy 1**, terrain beginning 8' from DER, 372' left of centerline, up to 541' MSL, terrain 164' from DER, 470' left of centerline, 545' MSL.

Sign 174' from DER, 289' right of centerline, 3' AGL/540' MSL.

Terrain, lighting beginning 180' from DER, 149' left of centerline, up to 546' MSL.

Lighting 201' from DER, 150' right of centerline, 3' AGL/541' MSL.

Sign 220' from DER, 320' right of centerline, 3' AGL/542' MSL.

Terrain beginning 296' from DER, 559' right of centerline, up to 553' MSL.

Terrain beginning 580' from DER, 97' left of centerline, up to 565' MSL.

Terrain 891' from DER, 48' right of centerline, 557' MSL.

Fence 896' from DER, 601' right of centerline, 5' AGL/559' MSL.

Building 934' from DER, 258' right of centerline, 12' AGL/567' MSL.

Vehicles on road, tree, NAVAID, fence, terrain beginning 945' from DER, 0' of centerline, up to 574' MSL.

Terrain beginning 1003' from DER, 523' left of centerline, up to 570' MSL.

Tree, terrain, fence, vehicles on road beginning 1082' from DER, 13' left of centerline, up to 59' AGL/613' MSL.

Tree 1344' from DER, 199' right of centerline, 8' AGL/575' MSL.

Vehicles on road, fence, terrain, tree beginning 1346' from DER, 32' right of centerline, up to 620' MSL.

Tree 2365' from DER, 470' left of centerline, 68' AGL/620' MSL.

Trees beginning 2397' from DER, 409' right of centerline, up to 30' AGL/646' MSL.

Tree, terrain, vehicles on road beginning 2490' from DER, 331' right of centerline, up to 36' AGL/659' MSL.

Pole, terrain beginning 2584' from DER, 139' right of centerline, up to 38' AGL/662' MSL.

Tree 2617' from DER, 181' left of centerline, 39' AGL/622' MSL.

Tree, terrain, building beginning 2635' from DER, 236' right of centerline, up to 47' AGL/672' MSL.

Tree, vehicles on road, poles, terrain beginning 2685' from DER, 272' right of centerline, up to 49' AGL/699' MSL.

Trees beginning 3390' from DER, 240' left of centerline, up to 67' AGL/644' MSL.

Vehicles on road, terrain, pole beginning 3550' from DER, 175' right of centerline, up to 718' MSL.

Tree, terrain, electrical system, building, pole beginning 4350' from DER, 325' right of centerline, up to 45' AGL/722' MSL.

CONT'

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

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

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## PRESQUE ISLE, ME (CON'T)

### PRESQUE ISLE INTL (PQI) (CON'T)

**Rwy 1 (CON'T)**, trees beginning 5771' from DER, 1618' left of centerline, up to 75' AGL/707' MSL.  
Trees beginning 1.1 NM from DER, 1458' right of centerline, up to 59' AGL/755' MSL.

**Rwy 10**, lighting 9' from DER, 29' left of centerline, 1' AGL/474' MSL.  
Fence, electrical system beginning 22' from DER, 440' left of centerline, up to 8' AGL/486' MSL.  
Tree, vehicles on road beginning 36' from DER, 424' right of centerline, up to 38' AGL/508' MSL.  
Pole 448' from DER, 611' right of centerline, 43' AGL/519' MSL.  
Tree, vehicles on road, electrical system beginning 520' from DER, 428' right of centerline, up to 58' AGL/535' MSL.  
Tree, vehicles on road, pole, electrical system beginning 650' from DER, 234' right of centerline, up to 77' AGL/553' MSL.  
Vehicles on road 900' from DER, 678' left of centerline, 496' MSL.  
Tree 1314' from DER, 850' left of centerline, 49' AGL/521' MSL.  
Tree 2377' from DER, 131' left of centerline, 69' AGL/534' MSL.  
Tree 2517' from DER, 136' left of centerline, 74' AGL/543' MSL.  
Tree 2579' from DER, 93' left of centerline, 75' AGL/544' MSL.  
Tree 2614' from DER, 130' left of centerline, 80' AGL/550' MSL.  
Trees beginning 1.1 NM from DER, 1918' right of centerline, up to 58' AGL/664' MSL.  
Tree, pole beginning 1.2 NM from DER, 1629' right of centerline, up to 66' AGL/673' MSL.  
Tree 1.2 NM from DER, 2282' right of centerline, 36' AGL/675' MSL.  
Tree 1.2 NM from DER, 2398' right of centerline, 38' AGL/679' MSL.  
Trees beginning 1.2 nm from DER, 1688' right of centerline, up to 61' AGL/693' MSL.  
Tree, building beginning 1.2 NM from DER, 1372' right of centerline, up to 64' AGL/709' MSL.  
Trees beginning 1.2 NM from DER, 1312' right of centerline, up to 60' AGL/711' MSL.  
Trees beginning 1.3 NM from DER, 1158' right of centerline, up to 58' AGL/714' MSL.  
Tree, electrical system beginning 1.3 nm from DER, 1478' right of centerline, up to 70' AGL/721' MSL.  
Trees beginning 1.3 NM from DER, 1147' right of centerline, up to 53' AGL/722' MSL.  
Tree 1.3 NM from DER, 1622' right of centerline, 70' AGL/729' MSL.  
Trees beginning 1.3 NM from DER, 1196' right of centerline, up to 72' AGL/761' MSL.  
Tree, terrain, building, fence beginning 1.3 NM from DER, 952' right of centerline, up to 65' AGL/763' MSL.  
Tree, terrain beginning 1.4 NM from DER, 1005' right of centerline, up to 69' AGL/767' MSL.

**Rwy 19**, trees beginning 619' from DER, 590' right of centerline, up to 50' AGL/490' MSL.  
Tree 1362' from DER, 797' left of centerline, 58' AGL/509' MSL.  
Trees beginning 1542' from DER, 779' left of centerline, up to 64' AGL/515' MSL.  
Tree 1610' from DER, 902' right of centerline, 69' AGL/502' MSL.  
Trees beginning 1871' from DER, 921' right of centerline, up to 79' AGL/513' MSL.  
Tree 2060' from DER, 1028' right of centerline, 89' AGL/524' MSL.  
Tree 2831' from DER, 1161' right of centerline, 92' AGL/526' MSL.

**Rwy 28**, lighting 9' from DER, 30' right of centerline, 2' AGL/474' MSL.  
Trees beginning 51' from DER, 264' right of centerline, up to 18' AGL/487' MSL.  
Tree, vegetation beginning 134' from DER, 255' right of centerline, up to 53' AGL/510' MSL.  
Tree 160' from DER, 464' left of centerline, 55' AGL/508' MSL.  
Tree 162' from DER, 508' left of centerline, 60' AGL/512' MSL.  
Trees beginning 174' from DER, 410' left of centerline, up to 60' AGL/513' MSL.  
Trees beginning 301' from DER, 445' left of centerline, up to 68' AGL/524' MSL.  
Trees beginning 574' from DER, 434' left of centerline, up to 60' AGL/533' MSL.  
Trees beginning 585' from DER, 225' right of centerline, up to 55' AGL/541' MSL.  
Trees beginning 676' from DER, 9' left of centerline, up to 62' AGL/540' MSL.  
Trees beginning 1175' from DER, 2' right of centerline, up to 70' AGL/610' MSL.  
Tree 5109' from DER, 1814' right of centerline, 81' AGL/629' MSL.  
Tree 5184' from DER, 1739' right of centerline, 83' AGL/637' MSL.  
Trees beginning 5258' from DER, 1131' right of centerline, up to 76' AGL/638' MSL.  
Trees beginning 5989' from DER, 1896' right of centerline, up to 47' AGL/639' MSL.  
Tree 1 NM from DER, 1933' right of centerline, 50' AGL/645' MSL.  
Trees beginning 1 NM from DER, 1694' right of centerline, up to 83' AGL/679' MSL.

## PRINCETON, ME

### PRINCETON MUNI (PNN)

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

AMDT 1 29MAY14 (14149) (FAA)

#### TAKEOFF MINIMUMS:

**Rwys 6, 24**, NA-Runway closed.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 15**, bushes beginning 42' from DER, left and right of centerline, up to 18' AGL/247' MSL.  
Trees beginning 104' from DER, 227' left of centerline, up to 69' AGL/288' MSL.  
Trees beginning 154' from DER, 287' right of centerline, up to 79' AGL/298' MSL.  
Trees beginning 900' from DER, left and right of centerline, up to 100' AGL/298' MSL.

**Rwy 33**, bushes beginning 33' from DER, 194' left of centerline, up to 16' AGL/275' MSL.  
Poles beginning 70' from DER, 495' left of centerline, up to 29' AGL/298' MSL.  
Trees beginning 248' from DER, left and right of centerline, up to 100' AGL/344' MSL.

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

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

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## PROVIDENCE, RI

### RHODE ISLAND TF GREEN INTL (PVD)

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

AMDT 13 07DEC17 (21280) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 34**, 300-2 w/min. climb of 220' per NM to 1100 or std. w/ min. climb of 250' per NM to 500 or 1000-2½ for VCOA.

##### DEPARTURE PROCEDURE:

**Rwy 23**, climb on heading 227° to 700 before turning right.

##### VCOA:

**Rwy 34**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Rhode Island TF Green Intl at or above 900 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 5**, terrain 22' from DER, 437' left of centerline, 45' MSL.

Lighting 675' from DER, 598' left of centerline, 68' MSL.

Tree 794' from DER, 614' left of centerline, 74' MSL.

Tree 880' from DER, 722' right of centerline, 78' MSL.

Trees beginning 1215' from DER, 497' left of centerline, up to 107' MSL.

Tree 1303' from DER, 849' right of centerline, 88' MSL.

Trees beginning 1464' from DER, 733' right of centerline, up to 105' MSL.

Trees beginning 2080' from DER, 454' left of centerline, up to 115' MSL.

Trees beginning 2205' from DER, 783' right of centerline, up to 120' MSL.

**Rwy 16**, terrain 32' from DER, 221' right of centerline, 34' MSL.

Tree, building, terrain beginning 82' from DER, 136' right of centerline, up to 71' MSL.

Tree 406' from DER, 579' left of centerline, 49' MSL.

Trees beginning 1172' from DER, 792' left of centerline, up to 72' MSL.

Trees beginning 1468' from DER, 407' left of centerline, up to 87' MSL.

Tree 1570' from DER, 827' right of centerline, 85' MSL.

Tree, pole beginning 1585' from DER, 490' left of centerline, up to 110' MSL.

Tree 1659' from DER, 911' right of centerline, 92' MSL.

Tree 2014' from DER, 907' left of centerline, 113' MSL.

Trees beginning 2015' from DER, 759' left of centerline, up to 119' MSL.

Pole, tree beginning 2534' from DER, 22' right of centerline, up to 118' MSL.

Trees beginning 2563' from DER, 9' left of centerline, up to 90' AGL/123' MSL.

Tree, pole beginning 2932' from DER, 28' right of centerline, up to 82' AGL/119' MSL.

Tank, tree, pole beginning 2957' from DER, 2' right of centerline, up to 121' MSL.

Tree, pole beginning 3146' from DER, 9' right of centerline, up to 87' AGL/123' MSL.

Tower 3891' from DER, 1346' right of centerline, 94' AGL/131' MSL.

**Rwy 23**, traverse way 206' from DER, 554' left of centerline, 61' MSL.

Pole 331' from DER, 588' left of centerline, 86' MSL.

Terrain 530' from DER, 613' right of centerline, 67' MSL.

Tree, pole beginning 661' from DER, 485' right of centerline, up to 85' MSL.

Tree 1004' from DER, 585' right of centerline, 101' MSL.

Tree 1007' from DER, 723' left of centerline, 116' MSL.

Trees beginning 1099' from DER, 494' right of centerline, up to 114' MSL.

Trees beginning 1181' from DER, 720' left of centerline, up to 117' MSL.

Trees beginning 1512' from DER, 591' left of centerline, up to 124' MSL.

Tree 1583' from DER, 908' right of centerline, 119' MSL.

Trees beginning 1697' from DER, 497' right of centerline, up to 123' MSL.

Trees beginning 1917' from DER, 494' left of centerline, up to 125' MSL.

Trees beginning 2066' from DER, 531' right of centerline, up to 87' AGL/137' MSL.

**Rwy 34**, fence beginning 71' from DER, 313' left of centerline, up to 59' MSL.

Building, sign, fence beginning 105' from DER, 288' right of centerline, up to 23' AGL/76' MSL.

Fence 210' from DER, 209' left of centerline, 8' AGL/61' MSL.

Tree, traverse way, pole beginning 296' from DER, 9' right of centerline, up to 110' MSL.

Pole beginning 309' from DER, 22' left of centerline, up to 73' MSL.

NAVAID 400' from DER, 189' left of centerline, 20' AGL/74' MSL.

Tank, tree, pole, traverse way, building beginning 414' from DER, 8' right of centerline, up to 120' MSL.

Building, pole beginning 437' from DER, 94' left of centerline, up to 77' MSL.

Building 519' from DER, 495' left of centerline, 84' MSL.

Building, traverse way beginning 546' from DER, 276' left of centerline, up to 27' AGL/85' MSL.

Pole, lighting, building beginning 588' from DER, 53' left of centerline, up to 88' MSL.

Tree, lighting, building, pole, electrical system beginning 643' from DER, 29' left of centerline, up to 39' AGL/94' MSL.

Pole, building beginning 828' from DER, 162' left of centerline, up to 100' MSL.

Pole, tree, building beginning 960' from DER, 146' left of centerline, up to 101' MSL.

Pole, tree beginning 1091' from DER, 45' left of centerline, up to 103' MSL.

Tree, pole beginning 1255' from DER, 188' left of centerline, up to 140' MSL.

Tree, pole beginning 1407' from DER, 27' left of centerline, up to 145' MSL.

Tree 1492' from DER, 793' right of centerline, 121' MSL.

Trees beginning 1568' from DER, 172' right of centerline, up to 127' MSL.

Trees beginning 2306' from DER, 421' right of centerline, up to 129' MSL.

Trees beginning 2407' from DER, 154' right of centerline, up to 131' MSL.

Tree 2524' from DER, 388' right of centerline, 132' MSL.

Trees beginning 2589' from DER, 435' right of centerline, up to 133' MSL.

Trees beginning 2953' from DER, 155' right of centerline, up to 138' MSL.

CONT

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

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

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## PROVIDENCE, RI (CON'T)

### RHODE ISLAND TF GREEN INTL (PVD) (CON'T)

**Rwy 34 (CON'T)**, tree 3262' from DER, 1065' right of centerline, 93' AGL/143' MSL.

Tower 1.4 NM from DER, 2915' right of centerline, 255' AGL/310' MSL.

Tower 1.5 NM from DER, 2927' right of centerline, 282' AGL/334' MSL.

## PROVINCETOWN, MA

### PROVINCETOWN MUNI (PVC)

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

ORIG 02AUG07 (07214) (FAA)

#### TAKEOFF OBSTACLE NOTES:

**Rwy 7**, trees beginning 133' from DER, 118' right of centerline up to 33' AGL/37' MSL.

Trees beginning 165' from DER, 89' left of centerline up to 33' AGL/47' MSL.

**Rwy 25**, bush 376' from DER, 575' right of centerline, 12' AGL/21' MSL.

## RANGELEY, ME

### RANGELEY LAKE SEAPLANE BASE (M57)

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

AMDT 1 29MAY14 (14149) (FAA)

#### TAKEOFF MINIMUMS:

**Rwy 6**, std. w/min. climb of 442' per NM to 4700 or 2600-2½ for climb in visual conditions.

**Rwy 24**, std. w/min. climb of 300' per NM to 3900 or 2600-2½ for climb in visual conditions.

#### DEPARTURE PROCEDURE:

**Rwy 6**, climb heading 075° to 4700 before proceeding on course. For climb in visual conditions, cross Rangeley Lake airport at or above 4000 before proceeding on course, do not exceed 210 KIAS until leaving 4000. When executing VCOA, notify ATC prior to departure.

**Rwy 24**, climb heading 255° to 3900 before proceeding on course. For climb in visual conditions, cross Rangeley Lake airport at or above 4000 before proceeding on course, do not exceed 210 KIAS until leaving 4000. When executing VCOA, notify ATC prior to departure.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 6**, trees and buildings beginning 1374' from DER, 446' right of centerline, up to 80' AGL/1620' MSL.

Vehicles on roadway beginning 3200' from DER, 957' right of centerline, up to 15' AGL/1614' MSL.

Boats on the water, up to 1553' MSL.

**Rwy 24**, boats on the water, up to 1553' MSL.

## STEPHEN A BEAN MUNI (8B0)

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

AMDT 1A 21MAY20 (20142) (FAA)

#### TAKEOFF MINIMUMS:

**Rwy 14**, std. w/min. climb of 305' per NM to 3800 or 2400 and 3 for VCOA.

**Rwy 32**, std. w/min. climb of 320' per NM to 3100 or 2400 and 3 for VCOA.

#### DEPARTURE PROCEDURE:

**Rwy 14**, climbing right turn direct RQM NDB to cross at or above 4000' before proceeding on course.

**Rwy 32**, climbing left turn direct RQM NDB to cross at or above 4000' before proceeding on course.

#### VCOA:

**All runways**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Stephen A Bean Muni at or above 4100 before proceeding on course.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 14**, trees beginning 23' from DER, 461' right of centerline, up to 1856' MSL.

Trees beginning 230' from DER, 285' right of centerline, up to 1857' MSL.

Trees 340' from DER, 549' left of centerline, 1848' MSL.

Trees beginning 372' from DER, 468' left of centerline, up to 1850' MSL.

Trees beginning 822' from DER, 372' left of centerline, up to 1859' MSL.

## ROCHESTER, NH

### SKYHAVEN (DAW)

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

AMDT 6A 05JAN17 (17005) (FAA)

#### DEPARTURE PROCEDURE:

**Rwy 33**, climb heading 327° to 800, then climbing left turn heading 250° to intercept CON VOR/DME R-095 to 3000 before proceeding on course.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 15**, trees beginning 450' from DER, 295' left of centerline, up to 110' AGL/400' MSL.

Trees and poles beginning 111' from DER, 389' right of centerline, up to 57' AGL/367' MSL.

**Rwy 33**, trees beginning 200' from DER, 154' right of centerline, up to 120' AGL/443' MSL.

Trees beginning 106' from DER, 160' left of centerline, up to 103' AGL/406' MSL.

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

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

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## ROCKLAND, ME

### KNOX COUNTY RGNL (RKD)

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

AMDT 4 05AUG04 (04218) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 3**, 300-1 or std. with a min. climb of 270' per NM to 2000, or 1100-2½ for climb in visual conditions.

**Rwy 31**, std. with a min. climb of 300' per NM to 1300, or 1100-2½ for climb in visual conditions.

##### DEPARTURE PROCEDURE:

**Rwys 3, 31**, for climb in visual conditions: cross Knox County Rgnl at or above 1000' MSL before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 3**, multiple trees, bushes, obstruction lights and towers beginning 108' from DER, 433' left of centerline, up to 146' AGL/206' MSL.

**Rwy 13**, multiple trees, antennas, and light poles beginning 475' from DER, 548' left of centerline, up to 80' AGL/155' MSL.

**Rwy 21**, multiple trees beginning 284' from DER, 255' left of centerline, up to 65' AGL/110' MSL.

**Rwy 31**, multiple trees beginning 2025' from DER, 895' right of centerline, up to 74' AGL/115' MSL.

## RUTLAND, VT

### SOUTHERN VERMONT RGNL (RUT)

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

AMDT 4A 07FEB13 (13038) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 1**, std. w/ min. climb of 439' per NM to 3000, or 3600-3 for climb in visual conditions.

**Rwy 13**, NA-obstacles.

**Rwy 19**, std. w/ min. climb of 470' per NM to 3300, or 3600-3 for climb in visual conditions.

**Rwy 31**, std. w/ min. climb of 500' per NM to 4500, or 3600-3 for climb in visual conditions.

##### DEPARTURE PROCEDURE:

**Rwy 1**, climb on 013° course to DYO NDB, cross DYO NDB at or above 6000, if not at 6000, depart DYO NDB on bearing 325° to 6000 before proceeding on course. For climb in visual condition: cross Rutland-Southern Vermont RGNL airport at or above 4300 before proceeding on course. When executing VCOA, notify ATC prior to departure.

**Rwy 19**, climb heading 194° to 1400, then climbing right turn on 025° course to DYO NDB, cross DYO NDB at or above 6000, if not at 6000, depart DYO NDB on bearing 325° to 6000 before proceeding on course. For climb in visual condition: cross Rutland-Southern Vermont RGNL airport at or above 4300 before proceeding on course. When executing VCOA, notify ATC prior to departure.

**Rwy 31**, climb heading 329° to 1600, then climbing right turn on 025° course to DYO NDB, cross DYO NDB at or above 6000, if not at 6000, depart DYO NDB on bearing 325° to 6000 before proceeding on course. For climb in visual condition: cross Rutland-Southern Vermont RGNL airport at or above 4300 before proceeding on course. When executing VCOA, notify ATC prior to departure.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 1**, tree 79' from DER, 424' right of centerline, 80' AGL/805' MSL.

**Rwy 19**, trees beginning 167' from DER, 305' right of centerline, up to 42' AGL/843' MSL.

Trees beginning 393' from DER, 175' left of centerline, up to 100' AGL/967' MSL.

**Rwy 31**, trees beginning 334' from DER, 94' left of centerline, up to 100' AGL/1319' MSL.

Trees beginning 885' from DER, 201' right of centerline, up to 85' AGL/827' MSL.

## SANFORD, ME

### SANFORD SEACOAST RGNL (SFM)

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

AMDT 3A 07MAR13 (13066) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 32**, 300-1¼ or std. w/min. climb of 375' per NM to 500.

##### DEPARTURE PROCEDURE:

**Rwy 25**, climb heading 255° to 1100 before turning right.

**Rwy 32**, climb heading 331° to 1600 before turning left.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 7**, vehicles on road, antenna, light support structure, transmission tower, and trees beginning 62' from DER, 4' left of centerline, up to 69' AGL/309' MSL.

Trees beginning 220' from DER, 19' right of centerline, up to 72' AGL/311' MSL.

**Rwy 14**, trees beginning 149' from DER, 320' left of centerline, up to 55' AGL/294' MSL.

Bushes and trees beginning 93' from DER, 260' right of centerline, up to 81' AGL/320' MSL.

**Rwy 25**, trees beginning 118' from DER, 511' left of centerline, up to 60' AGL/379' MSL.

Trees beginning 245' from DER, 476' right of centerline, up to 82' AGL/321' MSL.

**Rwy 32**, trees beginning 763' from DER, 58' left of centerline, up to 77' AGL/396' MSL.

Pole and trees beginning 332' from DER, 59' right of centerline, up to 92' AGL/381' MSL.

Trees 3269' from DER, 1226' left of centerline, up to 72' AGL/401' MSL.

Trees 4667' from DER, 1225' left of centerline, up to 82' AGL/431' MSL.

Trees 5473' from DER, 1013' left of centerline, up to 67' AGL/416' MSL.

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

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

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## SOUTHBRIDGE, MA

### SOUTHBRIDGE MUNI (3B0)

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

AMDT 3 11MAR10 (10070) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 2**, 300-1½ or std. with a min. climb of 370' per NM to 1000.

##### DEPARTURE PROCEDURE:

**Rwy 2**, climb heading 022° to 1800 before turning right.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 2**, trees beginning 597' from DER, 58' left of centerline, up to 100' AGL/913' MSL.

Tree 812' from DER, 197' right of centerline, 100' AGL/791' MSL.

**Rwy 20**, trees beginning 70' from DER, 309' right of centerline, up to 78' AGL/740' MSL.

Tree 1044' from DER, 395' left of centerline, 43' AGL/732' MSL.

## SPRINGFIELD, VT

### HARTNESS STATE (SPRINGFIELD) (VSF)

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

AMDT 3A 10SEP20 (20254) (FAA)

##### TAKEOFF MINIMUMS:

**Rwys 5, 11, 23, 29**, 3000-3 for VCOA

##### VCOA:

**All Rwys**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Hartness State (Springfield) airport at or above 3400 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 5**, tree, transmission line, pole beginning 3' from DER, 295' left of centerline, up to 688' MSL.

Tree 47' from DER, 218' right of centerline, 571' MSL.

Trees beginning 95' from DER, 178' right of centerline, up to 598' MSL.

Trees, transmission line, pole beginning 189' from DER, 2' left of centerline, up to 704' MSL.

Trees, poles, transmission line beginning 558' from DER, 94' left of centerline, up to 713' MSL.

Trees beginning 1013' from DER, 25' left of centerline, up to 721' MSL.

Tree 1294' from DER, 112' right of centerline, 616' MSL.

Trees beginning 1297' from DER, 24' right of centerline, up to 633' MSL.

Tree 3402' from DER, 22' right of centerline, 650' MSL.

Tree 3699' from DER, 77' right of centerline, 660' MSL.

Tree 5131' from DER, 1824' right of centerline, 773' MSL.

Trees beginning 5509' from DER, 1579' right of centerline, up to 799' MSL.

Trees beginning 5989' from DER, 1426' right of centerline, up to 829' MSL.

Tree 1 NM from DER, 1709' right of centerline, 945' MSL.

Trees beginning 1 NM from DER, 1346' right of centerline, up to 1054' MSL.

Tower, antenna, trees beginning 1.1 NM from DER, 302' right of centerline, up to 76' AGL/1161' MSL.

Trees beginning 1.6 NM from DER, 685' right of centerline, up to 1166' MSL.

Trees beginning 1.6 NM from DER, 279' right of centerline, up to 1233' MSL.

Trees, buildings, pole beginning 1.7 NM from DER, 103' right of centerline, up to 1237' MSL.

Tree 2 NM from DER, 390' left of centerline, 881' MSL.

Tree 2.1 NM from DER, 809' left of centerline, 887' MSL.

Tree 2.1 NM from DER, 304' left of centerline, 899' MSL.

Trees beginning 2.1 NM from DER, 478' left of centerline, up to 953' MSL.

Trees beginning 2.2 NM from DER, 43' left of centerline, up to 1025' MSL.

Tree 2.2 NM from DER, 401' left of centerline, 1057' MSL.

Trees beginning 2.2 NM from DER, 1574' right of centerline, up to 1271' MSL.

Trees beginning 2.2 NM from DER, 37' left of centerline, up to 1093' MSL.

Trees beginning 2.3 NM from DER, 307' right of centerline, up to 1280' MSL.

Tree 2.3 NM from DER, 557' left of centerline, 1122' MSL.

Trees beginning 2.3 NM from DER, 841' right of centerline, up to 1294' MSL.

Trees beginning 2.3 NM from DER, 63' left of centerline, up to 1126' MSL.

Building, poles, transmission line, trees beginning 2.3 NM from DER, 104' right of centerline, up to 102' AGL/1314' MSL.

Trees beginning 2.3 NM from DER, 390' left of centerline, up to 1189' MSL.

Trees beginning 2.4 NM from DER, 1091' left of centerline, up to 1208' MSL.

Trees beginning 2.4 NM from DER, 647' left of centerline, up to 1217' MSL.

Trees beginning 2.5 NM from DER, 29' left of centerline, up to 1266' MSL.

Building, trees beginning 2.5 NM from DER, 589' right of centerline, up to 26' AGL/1173' MSL.

**Rwy 11**, trees beginning 35' from DER, 302' right of centerline, up to 648' MSL.

Trees beginning 56' from DER, 225' left of centerline, up to 584' MSL.

Tree 2988' from DER, 831' left of centerline, 693' MSL.

Tree 3096' from DER, 386' left of centerline, 716' MSL.

Tree 3318' from DER, 953' right of centerline, 754' MSL.

Tree 3361' from DER, 1185' left of centerline, 721' MSL.

Tree 3419' from DER, 671' left of centerline, 792' MSL.

Tree 3495' from DER, 57' right of centerline, 770' MSL.

Tree 3580' from DER, 511' right of centerline, 787' MSL.

Trees beginning 3672' from DER, 321' left of centerline, up to 845' MSL.

Tree 3698' from DER, 1067' right of centerline, 830' MSL.

Tree 3975' from DER, 650' right of centerline, 846' MSL.

Tree 4022' from DER, 121' right of centerline, 852' MSL.

CON'T

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

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

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## SPRINGFIELD, VT (CON'T)

### HARTNESS STATE (SPRINGFIELD) (VSF) (CON'T)

**Rwy 11 (CON'T)**, trees beginning 4153' from DER, 331' left of centerline, up to 870' MSL.  
 Trees, transmission line, pole beginning 4154' from DER, 373' right of centerline, up to 903' MSL.  
 Trees, tower, poles, transmission line beginning 4465' from DER, 81' right of centerline, up to 938' MSL.  
 Trees beginning 4544' from DER, 149' left of centerline, up to 873' MSL.  
 Trees beginning 5381' from DER, 131' left of centerline, up to 901' MSL.  
 Trees, transmission line, poles beginning 5678' from DER, 198' left of centerline, up to 907' MSL.  
 Tree 1.1 NM from DER, 1851' left of centerline, 947' MSL.  
 Tree 1.1 NM from DER, 2298' left of centerline, 955' MSL.  
 Tree 1.1 NM from DER, 1111' left of centerline, 976' MSL.  
 Trees beginning 1.2 NM from DER, 366' left of centerline, up to 1027' MSL.  
 Trees beginning 1.2 NM from DER, 266' right of centerline, up to 947' MSL.  
 Trees beginning 1.2 NM from DER, 784' left of centerline, up to 1029' MSL.  
 Tree 1.2 NM from DER, 1813' right of centerline, 973' MSL.  
 Tree 1.2 NM from DER, 1378' right of centerline, 984' MSL.  
 Trees beginning 1.2 NM from DER, 153' left of centerline, up to 1054' MSL.  
 Trees beginning 1.2 NM from DER, 449' right of centerline, up to 1120' MSL.  
 Trees beginning 1.2 NM from DER, 571' left of centerline, up to 1075' MSL.  
 Trees beginning 1.3 NM from DER, 101' right of centerline, up to 1237' MSL.  
 Trees beginning 1.3 NM from DER, 319' left of centerline, up to 1097' MSL.  
 Trees beginning 1.3 NM from DER, 592' right of centerline, up to 1269' MSL.  
 Trees beginning 1.4 NM from DER, 766' left of centerline, up to 1101' MSL.  
 Tower, trees beginning 1.4 NM from DER, 11' right of centerline, up to 74' AGL/1408' MSL.  
 Trees beginning 1.4 NM from DER, 1219' left of centerline, up to 1106' MSL.  
 Trees beginning 1.4 NM from DER, 175' left of centerline, up to 1172' MSL.  
 Trees beginning 1.5 NM from DER, 19' left of centerline, up to 1192' MSL.  
 Trees beginning 1.8 NM from DER, 97' left of centerline, up to 1208' MSL.  
 Trees beginning 2.2 NM from DER, 245' left of centerline, up to 1210' MSL.  
 Tree 2.2 NM from DER, 3069' left of centerline, 1242' MSL.  
 Tree 2.2 NM from DER, 2553' left of centerline, 1261' MSL.  
 Trees beginning 2.2 NM from DER, 306' left of centerline, up to 1289' MSL.  
 Trees beginning 2.3 NM from DER, 208' left of centerline, up to 1326' MSL.  
 Tree 2.4 NM from DER, 3985' left of centerline, 1336' MSL.  
 Trees beginning 2.4 NM from DER, 876' left of centerline, up to 1368' MSL.  
 Trees beginning 2.4 NM from DER, 447' left of centerline, up to 1420' MSL.  
 Tree 2.4 NM from DER, 4186' left of centerline, 1437' MSL.  
 Trees beginning 2.5 NM from DER, 116' left of centerline, up to 1445' MSL.  
 Trees beginning 2.5 NM from DER, 610' left of centerline, up to 1479' MSL.  
 Trees beginning 2.5 NM from DER, 62' right of centerline, up to 1123' MSL.  
**Rwy 23**, trees beginning 28' from DER, 315' left of centerline, up to 591' MSL.  
 Tree 96' from DER, 181' right of centerline, 596' MSL.  
 Tree 157' from DER, 426' right of centerline, 619' MSL.  
 Tree 285' from DER, 530' right of centerline, 631' MSL.  
 Trees, pole, transmission line beginning 492' from DER, 2' right of centerline, up to 640' MSL.  
 Tree 1019' from DER, 584' left of centerline, 606' MSL.  
 Trees beginning 1107' from DER, 187' left of centerline, up to 613' MSL.  
 Tree 1.2 NM from DER, 1610' left of centerline, 759' MSL.  
 Trees beginning 1.2 NM from DER, 1702' left of centerline, up to 776' MSL.  
 Tree 1.3 NM from DER, 2175' right of centerline, 772' MSL.  
 Trees beginning 1.3 NM from DER, 1810' right of centerline, up to 816' MSL.  
 Trees beginning 1.3 NM from DER, 1418' right of centerline, up to 823' MSL.  
 Tree 1.4 NM from DER, 1910' right of centerline, 842' MSL.  
 Transmission line, pole beginning 1.4 NM from DER, 2700' right of centerline, up to 28' agl/875' MSL.  
 Building 1.4 NM from DER, 2655' right of centerline, 35' agl/877' MSL.  
 Tree 1.4 NM from DER, 2301' right of centerline, 890' MSL.  
 Trees, building, transmission line, poles beginning 1.5 NM from DER, 1793' right of centerline, up to 929' MSL.  
 Tree 1.5 NM from DER, 376' left of centerline, 829' MSL.  
 Tree 1.6 NM from DER, 668' left of centerline, 845' MSL.  
 Tree 1.8 NM from DER, 2654' left of centerline, 862' MSL.  
 Tree 1.8 NM from DER, 3071' left of centerline, 887' MSL.  
 Trees beginning 1.8 NM from DER, 774' right of centerline, up to 976' MSL.  
 Trees beginning 1.8 NM from DER, 1457' left of centerline, up to 957' MSL.  
 Trees, buildings beginning 1.9 NM from DER, 381' right of centerline, up to 996' MSL.  
 Trees beginning 1.9 NM from DER, 2230' left of centerline, up to 972' MSL.  
 Trees beginning 2 NM from DER, 1561' left of centerline, up to 978' MSL.  
 Tree 2 NM from DER, 2823' left of centerline, 997' MSL.  
 Trees beginning 2 NM from DER, 1976' left of centerline, up to 1011' MSL.  
 Trees, building beginning 2.1 NM from DER, 95' left of centerline, up to 1012' MSL.  
 Trees beginning 2.2 NM from DER, 224' right of centerline, up to 1148' MSL.  
 Tree 2.3 NM from DER, 3227' right of centerline, 1201' MSL.  
 Trees beginning 2.3 NM from DER, 1895' right of centerline, up to 1239' MSL.  
 Trees beginning 2.3 NM from DER, 0' of centerline, up to 1273' MSL.  
 Trees, tower beginning 2.3 NM from DER, 3304' right of centerline, up to 1282' MSL.

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

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

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## SPRINGFIELD, VT (CON'T)

### HARTNESS STATE (SPRINGFIELD) (VSF) (CON'T)

**Rwy 23 (CON'T)**, trees beginning 2.4 NM from DER, 33' right of centerline, up to 1290' MSL.  
 Trees beginning 2.5 NM from DER, 1932' left of centerline, up to 1013' MSL.  
 Tree 2.5 NM from DER, 312' left of centerline, 1022' MSL.  
 Trees beginning 2.5 NM from DER, 661' left of centerline, up to 1023' MSL.

**Rwy 29**, tree 48' from DER, 472' left of centerline, 623' MSL.  
 Trees beginning 227' from DER, 331' left of centerline, up to 625' MSL.  
 Trees beginning 372' from DER, 389' right of centerline, up to 649' MSL.  
 Trees beginning 428' from DER, 177' left of centerline, up to 648' MSL.  
 Tree 1534' from DER, 833' left of centerline, 678' MSL.  
 Trees beginning 1997' from DER, 315' left of centerline, up to 726' MSL.  
 Tree 2377' from DER, 760' left of centerline, 745' MSL.  
 Trees beginning 2610' from DER, 300' left of centerline, up to 758' MSL.  
 Tree, transmission line, pole beginning 2779' from DER, 662' left of centerline, up to 784' MSL.  
 Tree 2907' from DER, 1075' right of centerline, 737' MSL.  
 Tree 3004' from DER, 39' right of centerline, 743' MSL.  
 Tree 3133' from DER, 496' right of centerline, 746' MSL.  
 Tree, building, transmission line, pole beginning 3172' from DER, 387' left of centerline, up to 786' MSL.  
 Tree 3225' from DER, 789' left of centerline, 798' MSL.  
 Tree 3331' from DER, 890' right of centerline, 757' MSL.  
 Trees, transmission line, poles, building beginning 3351' from DER, 148' left of centerline, up to 805' MSL.  
 Trees beginning 3371' from DER, 166' right of centerline, up to 769' MSL.  
 Trees beginning 3898' from DER, 148' right of centerline, up to 797' MSL.  
 Trees, poles, transmission line, buildings beginning 3941' from DER, 71' left of centerline, up to 806' MSL.  
 Transmission line, pole, tree beginning 4726' from DER, 0' left of centerline, up to 72' AGL/834' MSL.  
 Trees, transmission line, pole beginning 4728' from DER, 333' right of centerline, up to 804' MSL.  
 Trees beginning 4939' from DER, 73' left of centerline, up to 837' MSL.  
 Transmission line, pole beginning 5000' from DER, 123' right of centerline, up to 46' AGL/820' MSL.  
 Transmission line, pole beginning 5255' from DER, 270' right of centerline, up to 39' AGL/824' MSL.  
 Trees, pole, transmission line beginning 5271' from DER, 446' right of centerline, up to 828' MSL.  
 Tree 5864' from DER, 168' right of centerline, 830' MSL.  
 Trees, transmission line, pole beginning 5897' from DER, 55' right of centerline, up to 836' MSL.  
 Tree, transmission line, pole beginning 1 NM from DER, 1125' right of centerline, up to 880' MSL.  
 Trees beginning 1 NM from DER, 274' right of centerline, up to 881' MSL.  
 Trees beginning 1.1 NM from DER, 91' right of centerline, up to 889' MSL.  
 Trees, buildings beginning 1.1 NM from DER, 43' right of centerline, up to 919' MSL.  
 Trees, transmission line, poles beginning 1.2 NM from DER, 250' right of centerline, up to 963' MSL.  
 Trees, pole, transmission line beginning 1.3 NM from DER, 628' right of centerline, up to 971' MSL.  
 Trees beginning 1.3 NM from DER, 119' left of centerline, up to 841' MSL.  
 Trees beginning 1.3 NM from DER, 82' right of centerline, up to 1013' MSL.  
 Trees beginning 1.4 NM from DER, 148' left of centerline, up to 848' MSL.  
 Trees beginning 1.5 NM from DER, 347' left of centerline, up to 860' MSL.  
 Trees beginning 1.5 NM from DER, 1750' left of centerline, up to 863' MSL.  
 Trees beginning 1.6 NM from DER, 184' right of centerline, up to 1029' MSL.  
 Trees beginning 1.6 NM from DER, 241' left of centerline, up to 875' MSL.  
 Tree 1.6 NM from DER, 1188' left of centerline, 876' MSL.  
 Trees beginning 1.6 NM from DER, 19' left of centerline, up to 900' MSL.  
 Trees beginning 1.6 NM from DER, 101' right of centerline, up to 1047' MSL.  
 Trees beginning 1.7 NM from DER, 562' left of centerline, up to 932' MSL.  
 Trees beginning 1.7 NM from DER, 404' left of centerline, up to 991' MSL.  
 Trees beginning 1.8 NM from DER, 171' left of centerline, up to 1022' MSL.  
 Trees beginning 1.8 NM from DER, 525' left of centerline, up to 1069' MSL.  
 Trees beginning 1.9 NM from DER, 30' left of centerline, up to 1122' MSL.  
 Tree 1.9 NM from DER, 2455' right of centerline, 1050' MSL.  
 Trees beginning 1.9 NM from DER, 950' right of centerline, up to 1083' MSL.  
 Trees beginning 2 NM from DER, 486' right of centerline, up to 1100' MSL.  
 Tower 2 NM from DER, 1210' right of centerline, 64' AGL/1103' MSL.  
 Trees beginning 2 NM from DER, 1155' right of centerline, up to 1130' MSL.  
 Trees beginning 2 NM from DER, 2169' right of centerline, up to 1155' MSL.  
 Trees beginning 2 NM from DER, 295' right of centerline, up to 1196' MSL.  
 Trees beginning 2.1 NM from DER, 190' right of centerline, up to 1251' MSL.  
 Trees beginning 2.2 NM from DER, 681' right of centerline, up to 1252' MSL.  
 Trees beginning 2.3 NM from DER, 1442' left of centerline, up to 1148' MSL.

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

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

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## STOW, MA

### MINUTE MAN AIR FLD (6B6)

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

AMDT 3 23SEP10 (21168) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 3**, 400-2¼ or std. w/min. climb of 420' per NM to 700.

**Rwys 12, 30**, NA-Environmental.

**Rwy 21**, 400-2¼ or std. w/min. climb of 600' per NM to 600.

##### DEPARTURE PROCEDURE:

**Rwy 3**, climb heading 032° to 800 before proceeding on course.

**Rwy 21**, climb heading 212° to 1600 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 3**, trees beginning 9' from DER, 244' right of centerline, up to 80' AGL/434' MSL.

Trees beginning 246' from DER, 168' left of centerline, up to 80' AGL/652' MSL.

**Rwy 21**, trees beginning 11' from DER, 188' right of centerline, up to 80' AGL/385' MSL.

Trees beginning 11' from DER, 198' left of centerline, up to 80' AGL/365' MSL.

Trees beginning 529' from DER, left and right of centerline, up to 80' AGL/574' MSL.

Tower 1.6 NM from DER, 2483' left of centerline, 118' AGL/511' MSL.

## TAUNTON, MA

### TAUNTON MUNI - KING FLD (TAN)

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

AMDT 2 14FEB08 (21224) (FAA)

##### TAKEOFF MINIMUMS:

**Rwys 4, 22**, NA-Turf runway.

**Rwy 12**, 200-1½ or std. w/min. climb of 362' per NM to 300.

**Rwy 30**, 200-1 or std. w/min. climb of 291' per NM to 300.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 12**, trees and terrain beginning 61' from DER, 128' right of centerline, up to 80' AGL/229' MSL.

Trees and terrain beginning 93' from DER, 204' left of centerline, up to 80' AGL/159' MSL.

**Rwy 30**, terrain beginning 147' from DER, 284' right of centerline, 43' MSL.

Trees and terrain beginning 1044' from DER, 320' left of centerline, up to 80' AGL/199' MSL.

## VINEYARD HAVEN, MA

### MARTHAS VINEYARD (MVY)

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

AMDT 1 13JAN11 (11013) (FAA)

##### TAKEOFF OBSTACLE NOTES:

**Rwy 6**, trees beginning 585' from DER, 492' left of centerline, up to 100' AGL/159' MSL.

Trees beginning 707' from DER, 543' right of centerline, up to 100' AGL/159' MSL.

**Rwy 15**, trees beginning 276' from DER, 156' left of centerline, up to 100' AGL/159' MSL.

Pole 411' from DER, 475' right of centerline, 45' AGL/97' MSL.

Trees beginning 430' from DER, 79' right of centerline, up to 100' AGL/159' MSL.

**Rwy 24**, trees beginning 594' from DER, 201' left of centerline, up to 100' AGL/149' MSL.

Trees beginning 606' from DER, 442' right of centerline, up to 100' AGL/159' MSL.

Building 791' from DER, 266' left of centerline, 25' AGL/75' MSL.

**Rwy 33**, trees beginning 36' from DER, 120' left of centerline, up to 100' AGL/179' MSL.

Trees beginning 67' from DER, 75' right of centerline, up to 100' AGL/169' MSL.

## WATERVILLE, ME

### WATERVILLE ROBERT LAFLEUR (WVL)

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

AMDT 1 08NOV18 (18312) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 32**, std. w/min. climb of 375' to 700, or 1000-2½ for VCOA.

##### VCOA:

**Rwy 32**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross

Waterville Robert Lafleur Airport at or above 1100 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 5**, tree 615' from DER, 572' right of centerline, 66' AGL/358' MSL.

Tree 1201' from DER, 616' left of centerline, 57' AGL/366' MSL.

**Rwy 14**, tree 215' from DER, 292' right of centerline, 41' AGL/333' MSL.

Tree 238' from DER, 296' left of centerline, 42' AGL/333' MSL.

Tree 249' from DER, 509' left of centerline, 77' AGL/371' MSL.

Trees beginning 264' from DER, 257' right of centerline, up to 63' AGL/351' MSL.

**Rwy 32**, tree 590' from DER, 234' right of centerline, 67' AGL/334' MSL.

Tree 634' from DER, 134' left of centerline, 73' AGL/340' MSL.

Tree, building beginning 2121' from DER, 144' left of centerline, up to 82' AGL/419' MSL.

Building 3054' from DER, 585' left of centerline, 30' AGL/430' MSL.

Tank 3618' from DER, 656' right of centerline, 67' AGL/477' MSL.

Tree 5420' from DER, 1044' left of centerline, 90' AGL/549' MSL.

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

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

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## WEST DOVER, VT

### DEERFIELD VALLEY RGNL (4V8)

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

AMDT 2 30JUN11 (11181) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 1**, 700-3 w/min. climb of 430' per NM to 4400.

**Rwy 19**, std. w/min. climb of 300' per NM to 3900.

##### DEPARTURE PROCEDURE:

**Rwy 1**, climb heading 005° to 4400 before turning west.

**Rwy 19**, climb heading 185° to 3900 before turning west.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 1**, trees beginning 31' from DER, left and right of centerline, up to 90' AGL/2640' MSL.

Rising terrain beginning 1.2 NM from DER, left and right of centerline, up to 4140' MSL.

**Rwy 19**, trees beginning 16' from DER, left and right of centerline, up to 90' AGL/2078' MSL.

## WESTERLY, RI

### WESTERLY STATE (WST)

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

AMDT 3 02JUN11 (11153) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 25**, 300-1

##### TAKEOFF OBSTACLE NOTES:

**Rwy 7**, trees beginning 36' from DER 57' right of centerline, up to 70' AGL/120' MSL.

Tree 789' from DER, 332' left of centerline, 41' AGL/100' MSL.

**Rwy 14**, trees beginning 124' from DER, 31' right of centerline, up to 61' AGL/173' MSL.

Trees beginning 443' from DER, 73' left of centerline, up to 54' AGL/163' MSL.

Bush 327' from DER, 3' left of centerline, 19' AGL/98' MSL.

**Rwy 25**, trees beginning 171' from DER, 119' right of centerline, up to 62' AGL/121' MSL.

Tank 2957' from DER, 1038' left of centerline, 126' AGL/250' MSL.

Obstruction light on pole 50' from DER, 496' left of centerline, 13' AGL/ 92' MSL.

Trees beginning 439' from DER, 93' left of centerline, up to 61' AGL/184' MSL.

**Rwy32**, trees beginning 32' from DER, 46' right of centerline, up to 84' AGL/173' MSL.

Trees beginning 152' from DER, 41' left of centerline, up to 85' AGL/174' MSL.

## WESTFIELD/SPRINGFIELD, MA

### WESTFIELD-BARNES RGNL (BAF)

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

AMDT 5 20JUN19 (19171) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 2**, 200-1½ or std. w/min. climb of 210' per NM to 600, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1200' prior to DER.

**Rwy 15**, 400-1½ or std. w/min. climb of 460' per NM to 800.

**Rwy 33**, std. w/min. climb of 340' per NM to 1800 or 1500-3 for VCOA.

##### DEPARTURE PROCEDURE:

**Rwy 2**, climb heading 024° to 1700 before proceeding on course.

**Rwy 15**, climb heading 154° to 1300 before proceeding on course.

**Rwy 20**, climb heading 204° to 1400 before proceeding on course.

**Rwy 33**, climb heading 334° to 1500 before proceeding on course.

##### VCOA:

**Rwy 33**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross

Westfield-Barnes Rgnl airport at or above 1600 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 2**, tree 3074' from DER, 658' left of centerline, 77' AGL/352' MSL.

Tree 3231' from DER, 747' right of centerline, 72' AGL/350' MSL.

Tree 3377' from DER, 867' left of centerline, 75' AGL/354' MSL.

Tree 4381' from DER, 144' left of centerline, 92' AGL/385' MSL.

Tree 1.2 NM from DER, 878' right of centerline, 99' AGL/465' MSL.

**Rwy 15**, tree 67' from DER, 449' left of centerline, 38' AGL/251' MSL.

Trees beginning 209' from DER, 74' left of centerline, up to 265' MSL.

Trees beginning 517' from DER, 40' right of centerline, up to 269' MSL.

Trees beginning 558' from DER, 532' left of centerline, up to 282' MSL.

Trees beginning 691' from DER, 420' left of centerline, up to 66' AGL/289' MSL.

Trees beginning 791' from DER, 534' left of centerline, up to 309' MSL.

Tree 936' from DER, 612' right of centerline, 280' MSL.

Tree 1034' from DER, 646' right of centerline, 295' MSL.

Trees beginning 1036' from DER, 384' right of centerline, up to 312' MSL.

Tree 1231' from DER, 719' left of centerline, 317' MSL.

Trees beginning 1285' from DER, 404' right of centerline, up to 313' MSL.

Trees beginning 1304' from DER, 438' left of centerline, up to 330' MSL.

Trees beginning 1399' from DER, 555' right of centerline, up to 321' MSL.

Trees beginning 1414' from DER, 90' left of centerline, up to 334' MSL.

Trees beginning 1458' from DER, 51' right of centerline, up to 85' AGL/324' MSL.

Trees beginning 1496' from DER, 9' left of centerline, up to 335' MSL.

CON'T

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

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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND  
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**WESTFIELD/SPRINGFIELD, MA (CON'T)  
WESTFIELD-BARNES RGNL (BAF) (CON'T)**

**Rwy 15 (CON'T)**, trees beginning 1685' from DER, 9' right of centerline, up to 326' MSL.

Trees beginning 1691' from DER, 103' left of centerline, up to 345' MSL.

Trees beginning 1915' from DER, 5' left of centerline, up to 354' MSL.

Trees beginning 2541' from DER, 85' right of centerline, up to 327' MSL.

Trees beginning 3032' from DER, 697' right of centerline, up to 329' MSL.

Trees beginning 3255' from DER, 1123' left of centerline, up to 368' MSL.

Tree 3261' from DER, 1270' right of centerline, 331' MSL.

Tree 3390' from DER, 1231' left of centerline, 370' MSL.

Trees beginning 3394' from DER, 1011' left of centerline, up to 389' MSL.

Tree 3526' from DER, 1298' left of centerline, 402' MSL.

Trees beginning 3538' from DER, 987' left of centerline, up to 408' MSL.

Trees beginning 3652' from DER, 892' left of centerline, up to 410' MSL.

Trees beginning 3715' from DER, 734' left of centerline, up to 413' MSL.

Trees beginning 3787' from DER, 888' left of centerline, up to 416' MSL.

Trees beginning 3932' from DER, 642' left of centerline, up to 418' MSL.

Trees beginning 4020' from DER, 610' left of centerline, up to 424' MSL.

Trees beginning 4081' from DER, 581' left of centerline, up to 428' MSL.

Trees beginning 4332' from DER, 684' left of centerline, up to 439' MSL.

Trees beginning 4518' from DER, 647' left of centerline, up to 449' MSL.

Trees beginning 4563' from DER, 529' left of centerline, up to 451' MSL.

Tank and trees beginning 4666' from DER, 375' left of centerline, up to 457' MSL.

Trees beginning 4784' from DER, 39' left of centerline, up to 465' MSL.

Trees beginning 5440' from DER, 39' right of centerline, up to 405' MSL.

Tree 5542' from DER, 117' right of centerline, 407' MSL.

Trees beginning 5561' from DER, 146' left of centerline, up to 466' MSL.

Trees beginning 5581' from DER, 9' right of centerline, up to 412' MSL.

Terrain and trees beginning 5700' from DER, 263' left of centerline, up to 471' MSL.

Trees beginning 5815' from DER, 151' left of centerline, up to 486' MSL.

Trees beginning 5837' from DER, 18' left of centerline, up to 513' MSL.

Trees beginning 5935' from DER, 71' left of centerline, up to 530' MSL.

Terrain and trees beginning 1 NM from DER, 74' left of centerline, up to 559' MSL.

Terrain and trees beginning 1 NM from DER, 12' left of centerline, up to 592' MSL.

Trees beginning 1.3 NM from DER, 48' right of centerline, up to 464' MSL.

Tree 1.3 NM from DER, 313' right of centerline, 476' MSL.

Trees beginning 1.3 NM from DER, 6' right of centerline, up to 484' MSL.

Trees beginning 1.3 NM from DER, 212' right of centerline, up to 490' MSL.

Trees beginning 1.4 NM from DER, 102' right of centerline, up to 493' MSL.

Trees beginning 1.4 NM from DER, 107' right of centerline, up to 500' MSL.

Trees beginning 1.4 NM from DER, 392' right of centerline, up to 511' MSL.

Vehicles on road and trees beginning 1.4 NM from DER, 11' right of centerline, up to 512' MSL.

Vehicles on road and trees beginning 1.4 NM from DER, 292' right of centerline, up to 521' MSL.

Vehicles on road and trees beginning 1.4 NM from DER, 9' right of centerline, up to 524' MSL.

Trees beginning 1.5 NM from DER, 1005' right of centerline, up to 59' AGL/525' MSL.

**Rwy 20**, trees beginning 541' from DER, 482' right of centerline, up to 44' AGL/294' MSL.

Tree 1082' from DER, 734' left of centerline, 61' AGL/309' MSL.

Trees beginning 1157' from DER, 170' left of centerline, up to 65' AGL/314' MSL.

Trees beginning 1219' from DER, 385' right of centerline, up to 70' AGL/311' MSL.

Trees beginning 1325' from DER, 430' right of centerline, up to 73' AGL/314' MSL.

Trees beginning 1489' from DER, 106' right of centerline, up to 72' AGL/317' MSL.

Tree 1594' from DER, 256' right of centerline, 76' AGL/318' MSL.

Tree 1597' from DER, 486' right of centerline, 80' AGL/320' MSL.

Trees beginning 1622' from DER, 47' left of centerline, up to 75' AGL/321' MSL.

Trees beginning 1676' from DER, 38' right of centerline, up to 87' AGL/329' MSL.

**Rwy 33**, fence 82' from DER, 419' right of centerline, 5' AGL/268' MSL.

Tree 105' from DER, 207' left of centerline, 267' MSL.

Poles and buildings beginning 645' from DER, 440' right of centerline, up to 50' AGL/311' MSL.

Tree 863' from DER, 723' left of centerline, 329' MSL.

Tree 956' from DER, 377' left of centerline, 80' AGL/340' MSL.

Trees beginning 958' from DER, 429' left of centerline, up to 360' MSL.

Pole and trees beginning 1088' from DER, 434' left of centerline, up to 361' MSL.

Pole and trees beginning 1566' from DER, 33' left of centerline, up to 362' MSL.

Trees beginning 1652' from DER, 30' right of centerline, up to 355' MSL.

Trees beginning 1877' from DER, 93' right of centerline, up to 358' MSL.

Trees beginning 2091' from DER, 26' left of centerline, up to 367' MSL.

Trees beginning 2263' from DER, 70' left of centerline, up to 375' MSL.

Trees beginning 2400' from DER, 69' left of centerline, up to 379' MSL.

Trees beginning 2604' from DER, 25' right of centerline, up to 364' MSL.

Trees beginning 2721' from DER, 13' left of centerline, up to 383' MSL.

Trees beginning 2847' from DER, 107' left of centerline, up to 388' MSL.

Buildings and trees beginning 3011' from DER, 3' left of centerline, up to 392' MSL.

Tree 4175' from DER, 331' right of centerline, 370' MSL.

Tree 4407' from DER, 168' right of centerline, 375' MSL.

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## WESTFIELD/SPRINGFIELD, MA (CON'T)

### WESTFIELD-BARNES RGNL (BAF) (CON'T)

- Rwy 33 (CON'T)**, tree 4503' from DER, 95' right of centerline, 383' MSL.  
Trees beginning 1.3 NM from DER, 2512' right of centerline, up to 488' MSL.  
Tree 1.4 NM from DER, 2625' right of centerline, 508' MSL.  
Trees beginning 1.4 NM from DER, 2530' right of centerline, up to 84' AGL/513' MSL.  
Towers beginning 1.5 NM from DER, 2439' left of centerline, up to 307' AGL/545' MSL.

## WESTOVER ARB/METROPOLITAN (KCEF)

### SPRINGFIELD/CHICOPEE, MA

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

AMDT 3 02JAN20 (20002)

##### TAKEOFF MINIMUMS:

- Rwy 5**, std. w/min climb of 247' per NM to 1600.  
**Rwy 15**, std. w/min climb of 264' per NM to 1800 or 300-1¼ w/min. climb of 203' per NM to 1800.  
**Rwy 33**, std. w/min climb of 296' per NM to 1800.

##### TAKEOFF OBSTACLE NOTES:

- Rwy 15**, multiple tree beginning 1374' from DER, extending from 891' right to 1395' left of cntrln, up to 125' AGL/357' MSL.  
Pylon 6019' from DER, 2141' left of cntrln, 127' AGL/409' MSL.  
**Rwy 23**, taxiing aircraft 87' from DER, 466' right of cntrln, 32' AGL/267' MSL.  
Multiple trees beginning 1194' from DER, extending from 199' right to 729' left of cntrln, up to 125' AGL/ 371' MSL.  
Pylon 4564' from DER, 1555' left of cntrln, 125' AGL/371' MSL.  
**Rwy 33**, multiple trees beginning 2830' from DER, extending from 456' right to 1230' left of cntrln, up to 125' AGL/ 330' MSL.

## WHITEFIELD, NH

### MOUNT WASHINGTON RGNL (HIE)

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

AMDT 5 07APR11 (11097) (FAA)

##### TAKEOFF MINIMUMS:

- Rwy 10**, std. w/ min. climb of 670' per NM to 5100 or 3100-3 for climb in visual conditions.  
**Rwy 28**, std. w/ min. climb of 540' per NM to 2300, or 400-2½ with minimum climb of 340' per NM to 2800, or 3100-3 for climb in visual conditions.

##### DEPARTURE PROCEDURE:

- Rwy 10**, climbing left turn direct GMA NDB thence ...  
or for climb in visual conditions, cross Mount Washington RGNL Airport at or above 4000' MSL, then on course 250° to GMA NDB, thence ...  
**Rwy 28**, climb direct GMA NDB thence ... or for climb in visual conditions, cross Mount Washington RGNL Airport at or above 4000' MSL, then on course 250° to GMA NDB, thence ...  
... climb in GMA NDB holding pattern (hold West, left turns, 104° bearing inbound) to cross GMA NDB at or above 5500' MSL before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

- Rwy 10**, train beginning 7' from DER, 467' left of centerline, up to 23' AGL/1125' MSL.  
Bush 52' from DER, 373' right of centerline, 10' AGL/1082' MSL.  
Trees beginning 61' from DER, left and right of centerline, up to 100' AGL/1418' MSL.  
Rising terrain beginning 153' from DER, left and right of centerline, up to 1185' MSL.  
Poles beginning 686' from DER, 379' left of centerline, 45' AGL/1128' MSL.  
**Rwy 28**, train beginning 7' from DER, 469' right of centerline, up to 23' AGL/1085' MSL.  
Vehicles on road beginning 8' from DER, left and right of centerline, up to 15' AGL/1097' MSL.  
Rising terrain beginning 213' from DER, 485' left of centerline, up to 1303' MSL.  
Trees beginning 269' from DER, left and right of centerline, up to 100' AGL/1438' MSL.

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## WILLIMANTIC, CT

WINDHAM (IJD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 29MAY14 (14149) (FAA)

TAKEOFF MINIMUMS:

**Rwy 9**, std. w/ min. climb of 411' per NM to 900, or 1100-2½ for climb in visual conditions.**Rwy 18**, 300-2 or std. w/ min. climb of 434' per NM to 700.**Rwy 27**, 300-2 or std. w/ min. climb of 270' per NM to 800.**Rwy 36**, std. w/ min. climb of 405' per NM to 700, or 1100-2½ for climb in visual conditions.

DEPARTURE PROCEDURE:

**Rwy 9**, climb heading 089° to 900 before proceeding on course, or for climb in visual conditions cross Windham Airport at or above 1200 before proceeding on course. When executing VCOA, notify ATC prior to departure.**Rwy 18**, climb heading 170° to 1000 before turning right.**Rwy 27**, climb heading 269° to 800 before proceeding on course.**Rwy 36**, climb heading 358° to 700 before proceeding on course, or for climb in visual conditions cross Windham Airport at or above 1200 before proceeding on course. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES:

**Rwy 9**, vehicle on road beginning 22' from DER, 461' right of centerline, up to 15' AGL/292' MSL.

Trees beginning 29' from DER, 92' right of centerline, up to 52' AGL/301' MSL.

Vehicle on road beginning 66' from DER, 188' left of centerline, up to 15' AGL/292' MSL.

Fence 75' from DER, 196' right of centerline, 6' AGL/277' MSL.

Poles beginning 284' from DER, left and right of centerline, up to 51' AGL/322' MSL.

Trees beginning 466' from DER, 229' right of centerline, up to 88' AGL/349' MSL.

Vehicle on road beginning 1110' from DER, left and right of centerline, up to 15' AGL/299' MSL.

Trees beginning 1147' from DER, left and right of centerline, up to 80' AGL/376' MSL.

Catenary beginning 1305' from DER, 126' right of centerline, up to 41' AGL/310' MSL.

Trees beginning 4005' from DER, left and right of centerline, up to 80' AGL/587' MSL.

Trees beginning 1.1 NM from DER, left and right of centerline, up to 80' AGL/668' MSL.

**Rwy 18**, vehicle in parking lot 17' from DER, 264' left of centerline, 15' AGL/264' MSL.

Trees beginning 47' from DER, 66' right of centerline, up to 80' AGL/315' MSL.

Trees beginning 123' from DER, 45' left of centerline, up to 80' AGL/326' MSL.

Pole 413' from DER, 147' left of centerline, 30' AGL/279' MSL.

Trees beginning 2097' from DER, 19' right of centerline, up to 80' AGL/412' MSL.

Trees beginning 2901' from MSL, 81' left of centerline, up to 80' AGL/418' MSL.

Trees beginning 1.6 NM from DER, 2908' left of centerline, up to 80' AGL/516' MSL.

**Rwy 27**, trees beginning 122' from DER, 117' left of centerline, up to 63' AGL/272' MSL.

Trees beginning 134' from DER, 126' right of centerline, up to 55' AGL/264' MSL.

Trees beginning 193' from DER, left and right of centerline, up to 82' AGL/317' MSL.

Trees beginning 2981' from DER, 442' right of centerline, up to 83' AGL/539' MSL.

**Rwy 36**, tree 31' from DER, 502' left of centerline, 93' AGL/312' MSL.

Trees beginning 130' from DER, 157' right of centerline, up to 99' AGL/329' MSL.

Trees beginning 195' from DER, 22' left of centerline, up to 103' AGL/316' MSL.

Trees beginning 4742' from DER, 1397' left of centerline, up to 80' AGL/546' MSL.

## WINDSOR LOCKS, CT

BRADLEY INTL (BDL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 12AUG21 (21224) (FAA)

TAKEOFF MINIMUMS:

**Rwy 33**, std. w/min. climb of 340' per NM to 1000 or 1200-3 for VCOA.

VCOA:

**Rwy 33**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Bradley Intl airport at or above 1200 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

**Rwy 6**, lighting 9' from DER, 9' right of centerline, 2' AGL/163' MSL.

Tree 20' from DER, 464' left of centerline, 27' AGL/184' MSL.

Trees beginning 70' from DER, 494' left of centerline, up to 198' MSL.

Trees beginning 1227' from DER, 730' left of centerline, up to 230' MSL.

Tree 1956' from DER, 920' right of centerline, 78' AGL/231' MSL.

Trees beginning 1969' from DER, 30' right of centerline, up to 245' MSL.

**Rwy 15**, lighting 3' from DER, 5' left of centerline, 2' AGL/170' MSL.

Terrain 7' from DER, 7' right of centerline, 169' MSL.

Building 1413' from DER, 740' right of centerline, 38' AGL/204' MSL.

Tree 1520' from DER, 897' right of centerline, 49' AGL/219' MSL.

Trees beginning 2336' from DER, 743' left of centerline, up to 49' AGL/246' MSL.

Trees beginning 2864' from DER, 884' left of centerline, up to 251' MSL.

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## WINDSOR LOCKS, CT (CON'T)

### BRADLEY INTL (BDL) (CON'T)

**Rwy 24**, lighting 2' from DER, 4' left of centerline, 2' AGL/174' MSL.  
Fence and pole beginning 1239' from DER, 773' left of centerline, up to 36' AGL/215' MSL.  
Tree 1945' from DER, 978' right of centerline, 237' MSL.  
Trees beginning 2024' from DER, 912' right of centerline, up to 244' MSL.  
Tree 3389' from DER, 598' left of centerline, 70' AGL/258' MSL.  
Tree 3456' from DER, 1085' left of centerline, 276' MSL.  
Trees beginning 3542' from DER, 619' left of centerline, up to 277' MSL.  
Tree 3705' from DER, 490' right of centerline, 71' AGL/270' MSL.  
Trees beginning 3751' from DER, 380' right of centerline, up to 83' AGL/285' MSL.  
Trees beginning 4014' from DER, 441' right of centerline, up to 286' MSL.  
Tree 4161' from DER, 894' right of centerline, 288' MSL.  
Tree 4223' from DER, 335' left of centerline, 282' MSL.  
Trees beginning 4251' from DER, 196' right of centerline, up to 290' MSL.  
Tree 4308' from DER, 491' left of centerline, 291' MSL.  
Tree 4804' from DER, 75' left of centerline, 295' MSL.

**Rwy 33**, lighting 3' from DER, 55' right of centerline, 2' AGL/170' MSL.  
Lighting 4' from DER, 54' left of centerline, 2' AGL/170' MSL.  
Trees beginning 1098' from DER, 581' right of centerline, up to 231' MSL.  
Tree 1271' from DER, 651' left of centerline, 219' MSL.  
Tree 1403' from DER, 783' right of centerline, 235' MSL.  
Trees beginning 1404' from DER, 546' left of centerline, up to 229' MSL.  
Trees beginning 1583' from DER, 34' left of centerline, up to 240' MSL.  
Trees beginning 1624' from DER, 457' right of centerline, up to 55' AGL/254' MSL.  
Trees beginning 1883' from DER, 477' left of centerline, up to 247' MSL.  
Trees beginning 1924' from DER, 41' right of centerline, up to 262' MSL.  
Tree 2159' from DER, 852' left of centerline, 254' MSL.  
Trees beginning 2205' from DER, 48' left of centerline, up to 68' AGL/260' MSL.  
Trees beginning 2420' from DER, 97' left of centerline, up to 261' MSL.  
Tree 3069' from DER, 824' left of centerline, 262' MSL.  
Trees beginning 3129' from DER, 218' right of centerline, up to 93' AGL/264' MSL.  
Trees beginning 3306' from DER, 652' left of centerline, up to 263' MSL.  
Trees beginning 3439' from DER, 124' right of centerline, up to 108' AGL/272' MSL.  
Trees beginning 2 NM from DER, 3419' left of centerline, up to 565' MSL.  
Trees beginning 2.1 NM from DER, 2696' left of centerline, up to 640' MSL.  
Trees beginning 2.2 NM from DER, 2911' left of centerline, up to 683' MSL.  
Antenna and trees beginning 2.3 NM from DER, 1806' left of centerline, up to 94' AGL/756' MSL.  
Antenna 2.3 NM from DER, 3521' left of centerline, 74' AGL/773' MSL.  
Tower and trees beginning 2.3 NM from DER, 535' left of centerline, up to 152' AGL/774' MSL.

## WISCASSET, ME

### WISCASSET (IWI)

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

AMD T 03JUN10 (10154) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 7**, 300-2 or std. with a min. climb of 232' per NM to 400, or alternatively, with standard TAKEOFF minimums and a normal 200' per NM climb gradient, TAKEOFF must occur no later than 2100' prior to DER.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 7**, trees beginning 115' from DER, right of and left of centerline, up to 80' AGL/149' MSL.  
Vehicle on road, 537' from DER, right and left of centerline, 17' AGL/76' MSL.  
T-L towers beginning 3144' from DER, right and left of centerline, 141' AGL/206' MSL.  
Trees beginning 3643' from DER, 1311' right of centerline, up to 80' AGL/179' MSL.  
Pole 400' from DER, 500' left of centerline, 35' AGL/85' MSL.  
Trees beginning 1.38 NM from DER, 285' right of centerline, up to 80' AGL/299' MSL.

**Rwy 25**, vehicles on roads beginning 30' from DER, right and left of centerline, 15' AGL/84' MSL.  
Trees beginning 739' from DER, 111' left of centerline, up to 80' AGL/149' MSL.  
Trees beginning 501' from DER, 252' right of centerline, up to 80' AGL/189' MSL.

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**DIVERSE VECTOR AREA (RADAR VECTORS)**

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**WORCESTER, MA****WORCESTER RGNL (ORH)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

AMDT 8 11MAR10 (10070) (FAA)

**TAKEOFF MINIMUMS:****Rwy 29**, 300-1 or std. w/min. climb of 323' per NM to 1300.**Rwy 33**, 700-3 or std. w/min. climb of 394' per NM to 2000.**DEPARTURE PROCEDURE:****Rwy 29**, climb heading 289° to 1600 before turning right.**Rwy 33**, climb heading 333° to 2000 before turning right.**TAKEOFF OBSTACLE NOTES:****Rwy 15**, trees beginning 130' from DER, 333' right of centerline, up to 100' AGL/1011' MSL.

Trees beginning 63' from DER, 250' left of centerline, up to 100' AGL/1003' MSL.

**Rwy 29**, trees beginning 55' from DER, 464' right of centerline, up to 100' AGL/1192' MSL.

Trees beginning 617' from DER, 621' left of centerline, up to 100' AGL/1109' MSL.

**Rwy 33**, trees beginning 212' from DER, 124' left of centerline, up to 100' AGL/1043' MSL.

Trees beginning 499' from DER, 339' right of centerline, up to 100' AGL/1418' MSL.

Rising terrain beginning 1.5 NM from DER, 1491' right of centerline, up to 1385' MSL.

Rod on pole 1.3 NM from DER, 1325' left of centerline, up to 76' AGL/1224' MSL.

Rod on pole 1.4 NM from DER, 195' right of centerline, up to 90' AGL/1257' MSL.

Rod on pole 1.6 NM from DER, 2120' right of centerline, up to 107' AGL/1402' MSL.

Tower 1.8 NM from DER, 3415' right of centerline, up to 106' AGL/1500' MSL.

Tower 2.3 NM from DER, 4087' right of centerline, up to 366' AGL/1674' MSL.

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