INSTRUCTIONS IS REQUIRED
OF ALL RUNWAY HOLDING CLEARANCES. READBACK
RUNWAY CROSSING
CAUTION: BE ALERT TO

4R
B
19
ELEV
0 3 4
.1°
FIELD
ELEV
19
71°01'W
71°00'W
42°21'N
TERMINAL
MAIN
TERMINAL
SATELLITE
TERMINAL
RAMP
AVIATION
GENERAL

1 4
(PARKING)
J PAD
STATION
MAIN FIRE
STATION
J PAD
(PARKING)
NORTH
CARGO
INTERNATIONAL
TERMINAL
SEEN
INSET

3 2
R A M P C O N
1 2 1.7 5 1 2 1.9
G N D  C O N
H elico pters 1 2 4.7 2 5
2 5 7.8
1 3 2.2 2 5 (EA ST)
1 2 8.8 (W EST)
B O S T O N
T W R
1 3 5.0
D -A T I S
0.1° E
V A
R 1 4
15
.4° W
NE-1, 10 SEP 2020 to 08 OCT 2020
NE-1, 10 SEP 2020 to 08 OCT 2020

ASDE-X in use. Operate transponders
with altitude reporting mode and ADS-B
(if equipped) enabled on all airport surfaces.
Runway Status Lights in operation.

AL-58 (FAA)
BOSTON, MASSACHUSETTS
D-ATIS
135.0
BOSTON TOWER
128.8 (WEST)
132.225 (EAST)
257.8
Helicopters 124.725
GND CON
121.75 121.9
CINC DEL
121.65 257.8
RAMP CON
134.05
CPDLC

19
ELEV
2 5 5 7
X 100
STATION
SATELLITE FIRE
STATION

HS 1
HS 2
HS 3
HS 4

EMAS

R W Y 0 4 L - 2 2 R , 0 4 R - 2 2 L , 0 9 - 2 7 , 1 5 L - 3 3 R , 1 5 R - 3 3 L
PCN 9 0 F / C / W / T
S -1 2 0 , D - 2 5 0 , 2 D - 5 5 0
R W Y 1 4 - 3 2
PCN 8 5 F / C / W / T
S -1 2 0 , D - 2 5 0 , 2 D - 4 9 0

AIRPORT DIAGRAM
20142
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

BOSTON, MASSACHUSETTS
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4R: Climb heading 035° to 520, then direct NHANT, then on track 091° to cross HURBE at or above 4000, thence.

TAKEOFF RWY 9: Climb heading 092° to 520, then direct CLAWW, cross CLAWW at or above 4000, thence.

TAKEOFF RWY 15R: Climb heading 150° to intercept course 131° to FOXXX, do not exceed 210K until 520 MSL, thence.

TAKEOFF RWY 22L: Climb heading 215° to intercept course 139° to TJAYY, do not exceed 210K until 520 MSL, thence.

TAKEOFF RUNWAY 22R: Climb heading 215° to intercept course 143° to TJAYY, do not exceed 210K until 520 MSL, thence.

TAKEOFF RUNWAY 27: Climb heading 272° to intercept course 234° to KIRAA, thence.

TAKEOFF RUNWAY 33L: Climb heading 330° to intercept course 313° to TEKKEK, thence.

. . . . on depicted route to BLZZR. Maintain 5000 or lower assigned altitude. Expect clearance to filed altitude/flight level within ten (10) minutes after departure.
NOTE: Chart not to scale.

NOTE: At/Below 250K until BRRRO.

NOTE: Rwy 15R, 22L, 22R: Do not exceed 210K until 520’ MSL.

NOTE: Departure hdg/RNAV tracks/vectors are predicated on avoiding noise sensitive areas. Flight crew awareness and compliance is important in minimizing noise impacts on surrounding communities.

NOTE: Rwy 15R, 22L, 22R: Do not exceed 210K until 520’ MSL.

NOTE: At/Below 250K until BRRRO.

TAKEOFF MINIMUMS:
Rwys 4L, 14, 15L, 32, 33R: NA-ATC.
Rwy 4R: Standard with minimum climb of 500’ per NM to 3600.
Rwy 9: Standard with minimum climb of 500’ per NM to 4000.
Rwy 15R: Standard with minimum climb of 500’ per NM to 520.
Rwy 22L: 300-1 with minimum climb of 500’ per NM to 520, or standard with minimum climb of 500’ per NM to 520 if tower reports no tall vessels in the departure area.
Rwy 22R: Standard with minimum climb of 500’ per NM to 520.
Rwy 27: Standard with a minimum climb of 500’ per NM to 1300.
Rwy 33L: Standard with a minimum climb of 500’ per NM to 4900.

(NARRATIVE ON FOLLOWING PAGE)
TAKEOFF RUNWAY 4R: Climb heading 035° to 520, then direct NHANT, then on track 091° to cross HURBE at or above 4000, thence....
TAKEOFF RUNWAY 9: Climb heading 092° to 520, then direct CLAWW, cross CLAWW at or above 4000, thence....
TAKEOFF RUNWAY 15R: Climb heading 150° to intercept course 131° to FOXXX, do not exceed 210K until 520 MSL, thence....
TAKEOFF RUNWAY 22L: Climb heading 215° to intercept course 139° to TJAYY, do not exceed 210K until 520 MSL, thence....
TAKEOFF RUNWAY 22R: Climb heading 215° to intercept course 143° to TJAYY, do not exceed 210K until 520 MSL, thence....
TAKEOFF RUNWAY 27: Climb heading 272° to intercept course 234° to KIRAA, thence....
TAKEOFF RUNWAY 33L: Climb heading 330° to intercept course 313° to TEKKK, then on track 250° to cross COUSY at or above 5000, thence....

....on depicted route to BRUWN. Maintain 5000 or lower assigned altitude. Expect clearance to filed altitude/flight level ten (10) minutes after departure.
NOTE: Chart not to scale.

DEPARTURE hdg/RNAV tracks/vectors are predicated on avoiding noise sensitive areas. Flight crew awareness and compliance is important in minimizing noise impacts on surrounding communities.

NOTE: Rwys 15R, 22L, 22R: Do not exceed 210K until 520’ MSL.
NOTE: For Turbojets only.

TOP ALTITUDE: 5000

TAKEOFF MINIMUMS:
Rwys 4L, 14, 15L, 32, 33R: NA-ATC.
Rwy 4R: Standard with minimum climb of 500’ per NM to 3600.
Rwy 9: Standard with minimum climb of 500’ per NM to 4000.
Rwy 15R: Standard with minimum climb of 500’ per NM to 520.
Rwy 22L: 300-1 with minimum climb of 500’ per NM to 520, or standard with minimum climb of 500’ per NM to 520 if tower reports no tall vessels in the departure area.
Rwy 22R: Standard with minimum climb of 500’ per NM to 520.
Rwy 27: Standard with a minimum climb of 500’ per NM to 1300.
Rwy 33L: Standard with a minimum climb of 500’ per NM to 4900.

NOTE: RNAV 1.
NOTE: For Turbojets only.

NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required for non-GPS equipped aircraft.

(NARRATIVE ON FOLLOWING PAGE)
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 4R: Climb heading 035° to 520, then direct NHANT, then on track 091° to cross HURBE at or above 4000, thence. . . .

TAKEOFF RUNWAY 9: Climb heading 092° to 520, then direct CLAWW, cross CLAWW at or above 4000, thence. . . .

TAKEOFF RUNWAY 15R: Climb heading 150° to intercept course 131° to FOXXX, do not exceed 210K until 520 MSL, thence. . . .

TAKEOFF RUNWAY 22L: Climb heading 215° to intercept course 139° to TJAYY, do not exceed 210K until 520 MSL, thence. . . .

TAKEOFF RUNWAY 22R: Climb heading 215° to intercept course 143° to TJAYY, do not exceed 210K until 520 MSL, thence. . . .

TAKEOFF RUNWAY 27: Climb heading 272° to intercept course 234° to KIRAA, thence. . . .

TAKEOFF RUNWAY 33L: Climb heading 330° to intercept course 313° to TEKKK, then on track 250° to cross COUSY at or above 5000, thence. . . .

. . . .on depicted route to CELTK. Maintain 5000 or lower assigned altitude. Expect clearance to filed altitude/flight level within ten (10) minutes after departure.
TAKEOFF MINIMUMS:
Rwy 4L, 14, 15L, 32, 33R: NA - ATC
Rwy 4R: Standard with minimum climb of 500’ per NM to 3600.
Rwy 9: Standard with minimum climb of 500’ per NM to 4000.
Rwy 15R, 22R: Standard with minimum climb of 500’ per NM to 520.
Rwy 22L: 300-1 with minimum climb of 500’ per NM to 520, or standard with minimum climb of 500’ per NM to 520 if tower reports no tall vessels in the departure area.
Rwy 27: Standard with a minimum climb of 500’ per NM to 1300.
Rwy 33L: Standard with a minimum climb of 500’ per NM to 3100.

NOTE: Departure hdg/RNAV tracks/vectors are predicated on avoiding noise sensitive areas. Flight crew awareness and compliance is important in minimizing noise impacts on surrounding communities.
NOTE: Rwy 15R, 22L, 22R: Do not exceed 210K until 520’ MSL.
NOTE: At/Below 250K until BOATT.
NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required for non-GPS equipped aircraft.
NOTE: RNAV 1.
NOTE: For Turbojets only.

TOP ALTITUDE: 5000

HYLND FIVE DEPARTURE (RNAV)

NOTE: Chart not to scale.
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 4R: Climb heading 035° to 520, then direct NHANT, then on track 091° to cross HURBE at or above 4000, thence....
TAKEOFF RUNWAY 9: Climb heading 092° to 520, then direct CLAWW, cross CLAWW at or above 4000, thence....
TAKEOFF RUNWAY 15R: Climb heading 150° to intercept course 131° to FOXXX, do not exceed 210K until 520 MSL, thence....
TAKEOFF RUNWAY 22L: Climb heading 215° to intercept course 139° to TJAYY, do not exceed 210K until 520 MSL, thence....
TAKEOFF RUNWAY 22R: Climb heading 215° to intercept course 143° to TJAYY, do not exceed 210K until 520 MSL, thence....
TAKEOFF RUNWAY 27: Climb heading 272° to intercept course 234° to KIRAA, thence....
TAKEOFF RUNWAY 33L: Climb heading 330° to intercept course 313° to TEKKK, then on track 353° to cross CAMWI at or above 4000, thence....

....on depicted route to HYLND. Maintain 5000 or lower assigned altitude. Expect clearance to filed altitude/flight level within ten (10) minutes after departure.
**LBSTA SIX DEPARTURE (RNAV)**

**NOTE:** Chart not to scale.

**TOP ALTITUDE:**
- **5000**

**TAKEOFF MINIMUMS:**
- Rwys 4L, 14, 15L, 32, 33R: NA - ATC.
- Rwy 9: Standard with minimum climb of 500' per NM to 3600.
- Rwy 15: Standard with minimum climb of 500' per NM to 520.
- Rwy 22L: 300-1 with minimum climb of 500' per NM to 520, or standard with minimum climb of 500' per NM to 520 if tower reports no tall vessels in the departure area.
- Rwy 22R: Standard with minimum climb of 500' per NM to 520.
- Rwy 27: Standard with a minimum climb of 500' per NM to 520.
- Rwy 33L: Standard with a minimum climb of 500' per NM to 3100.

**NOTE:** At/Below 250K until BOATT.

**NOTE:** Rwys 15R, 22L, 22R: Do not exceed 210K until 520' MSL.

**NOTE:** For Turbojets only.

**NOTE:** Departure hdg/RNAV tracks/vectors are predicated on avoiding noise sensitive areas. Flight crew awareness and compliance is important in minimizing noise impacts on surrounding communities.

**NOTE:** DME/DME/IRU or GPS required.

**NOTE:** RADAR required for non-GPS equipped aircraft.

**NOTE:** RNAV 1.

**NOTE:** Chart not to scale.
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 4R: Climb heading 035° to 520, then direct NHANT, then on track 091° to cross HURBE at or above 4000, thence....

TAKEOFF RUNWAY 9: Climb heading 092° to 520, then direct CLAWW, cross CLAWW at or above 4000, thence....

TAKEOFF RUNWAY 15R: Climb heading 150° to intercept course 131° to FOXXX, do not exceed 210K until 520’ MSL, thence....

TAKEOFF RUNWAY 22L: Climb heading 215° to intercept course 139° to TJAYY, do not exceed 210K until 520’ MSL, thence....

TAKEOFF RUNWAY 22R: Climb heading 215° to intercept course 143° to TJAYY, do not exceed 210K until 520’ MSL, thence....

TAKEOFF RUNWAY 27: Climb heading 272° to intercept course 234° to KIRAA, thence....

TAKEOFF RUNWAY 33L: Climb heading 330° to intercept course 313° to TEKKK, then on track 353° to cross CAMWI at or above 4000, thence....

....on depicted route to LBSTA. Maintain 5000 or lower assigned altitude. Expect clearance to filed altitude/flight level within ten (10) minutes after departure.
DEPARTURE ROUTE DESCRIPTION

JET AIRCRAFT:
TAKEOFF RWYS 4L/4R: Climb heading 035° to BOS 4 DME, then turn right heading 090°, thence . . . .
TAKEOFF Rwy 9: Climb heading 092°, thence . . . .
TAKEOFF Rwy 14: Climb heading 141° to BOS 1 DME, then turn left heading 120°, thence . . . .
TAKEOFF Rwy 15R: Climb heading 150° to BOS 1 DME, then turn left heading 120°, thence . . . .
TAKEOFF RWYS 22L/22R: Climbing left turn heading 140°, thence . . . .
TAKEOFF Rwy 27: Climb heading 272° to BOS 2.2 DME, then left turn heading 235°, thence . . . .
TAKEOFF Rwy 33L: Climb heading 330° to BOS 2 DME, then left turn heading 316°, thence . . . .

NON JET AIRCRAFT: Climb on assigned heading, thence . . . .

. . . .expect RADAR vectors to assigned route/navaid/fix. Jet aircraft maintain 5000 or lower assigned altitude. Non jet aircraft maintain 3000 or lower assigned altitude. Expect clearance to filed altitude/flight level within ten (10) minutes after departure.

TAKEOFF MINIMUMS:
Rwy 15L: NA-ATC.
Rwys 32: 33R: NA-Environmental.
Rwy 4R,15R: Standard.
Rwy 4L: 300-1 or standard with minimum climb of 358' per NM to 300.
Rwy 9: 300-1½ or standard with minimum climb of 272' per NM to 300.
Rwy 14: 300-1¼ or standard with minimum climb of 225' per NM to 300, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1600' prior to DER.
Rwy 22L: 300-1 or standard if tower reports no tall vessels in the departure area.
Rwy 22R: 400-1½ or standard with minimum climb of 320' per NM to 500.
Rwy 27: Standard with minimum climb of 477' per NM to 1300.
Rwy 33L: 300-1¼ or standard with minimum climb of 224' per NM to 400, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1900' prior to DER.

NOTE: RADAR required.
NOTE: DME required for jet aircraft departing Rwys 4L/R, 14, 15R, 27, 33L.
NOTE: Non RNAV equipped aircraft can expect vectors on assigned route.
NOTE: Jet aircraft departure headings/vectors are predicated on avoiding noise sensitive areas. Flight crew awareness and compliance is important in minimizing noise impacts on surrounding communities. Aircraft that are initially vectored over water can expect to cross the coastline above 6000 MSL before proceeding on course.
NOTE: BLZZR DEPARTURES expect vectors on BOS R-273, DME required.
NOTE: BRUWN DEPARTURES expect vectors on BOS R-159, DME required.
NOTE: CELTK DEPARTURES expect vectors on BOS R-114.
NOTE: HYLNDE DEPARTURES expect vectors on BOS R-350.
NOTE: PATSS DEPARTURES expect vectors on BOS R-260, DME required.
NOTE: REVSS DEPARTURES expect vectors on BOS R-285, DME required.
NOTE: SSOXS DEPARTURES expect vectors on BOS R-177, DME required.
**DEPARTURE ROUTE DESCRIPTION**

TAKEOFF RWY 4L: Climb heading 035° to 520, then direct NHANT, then on track 091° to cross HURBE at or above 4000, thence. . . .

TAKEOFF RWY 9: Climb heading 092° to 520, then direct CLAWW, cross CLAWW at or above 4000, thence. . . .

TAKEOFF RWY 15R: Climb heading 150° to intercept course 131° to FOXXX, do not exceed 210K until 520 MSL, thence. . . .

TAKEOFF RWY 22L: Climb heading 215° to intercept course 139° to TJAYY, do not exceed 210K until 520 MSL, thence. . . .

TAKEOFF RWY 22R: Climb heading 215° to intercept course 143° to TJAYY, do not exceed 210K until 520 MSL, thence. . . .

TAKEOFF RWY 27: Climb heading 272° to intercept course 234° to KIRAA, thence. . . .

TAKEOFF RWY 33L: Climb heading 330° to intercept course 313° to TEKKK, then on track 250° to cross COUSY at or above 5000, thence. . . .

. . . .on depicted route to PATSS. Maintain 5000 or lower assigned altitude. Expect clearance to filed altitude/flight level within ten (10) minutes after departure.
NOTE: Departure hdg/RNAV tracks/vectors are
preorded on avoiding noise sensitive areas.
Flight crew awareness and compliance is
important in minimizing noise impacts on
surrounding communities.

NOTE: Rwys 15R, 22L, 22R: Do not exceed 210K
until 520’ MSL.

NOTE: At/Below 250K until BRRRO.
NOTE: At/Below 290K until HEWMO.
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4R: Climb heading 035° to 520, then direct NHANT, then on track 091° to cross HURBE at or above 4000, thence....
TAKEOFF RWY 9: Climb heading 092° to 520, then direct CLAWW, cross CLAWW at or above 4000, thence....
TAKEOFF RWY 15R: Climb heading 150° to intercept course 131° to FOXXX, do not exceed 210K until 520 MSL, thence....
TAKEOFF RWY 22L: Climb heading 215° to intercept course 139° to TJAYY, do not exceed 210K until 520 MSL, thence....
TAKEOFF RWY 22R: Climb heading 215° to intercept course 143° to TJAYY, do not exceed 210K until 520 MSL, thence....
TAKEOFF RWY 27: Climb heading 272° to intercept course 234° to KIRAA, thence....
TAKEOFF RWY 33L: Climb heading 330° to intercept course 313° to TEKKK, thence....

....on depicted route to REVSS. Maintain 5000 or lower assigned altitude. Expect clearance to filed altitude/flight level within ten (10) minutes after departure.
NOTE: Chart not to scale.

NOTE: Departure hdg/RNAV tracks/vectors are predicated on avoiding noise sensitive areas. Flight crew awareness and compliance is important in minimizing noise impacts on surrounding communities.

NOTE: Rwys 15R, 22L, 22R: Do not exceed 210K until 520’ MSL.

NOTE: At/Below 250K until BRRRO.

TAKEOFF MINIMUMS:
Rwys 4L, 14, 15L, 32, 33R: NA - ATC
Rwys 4R: Standard with minimum climb of 500’ per NM to 3600.
Rwy 9: Standard with minimum climb of 500’ per NM to 4000.
Rwys 15R, 22R: Standard with minimum climb of 500’ per NM to 520.
Rwy 22L: 300-1 with minimum climb of 500’ per NM to 520, or standard with minimum climb of 500’ per NM to 520 if tower reports no tall vessels in the departure area.
Rwy 27: Standard with a minimum climb of 500’ per NM to 1300.
Rwy 33L: Standard with a minimum climb of 500’ per NM to 4900.

NOTE: For Turbojets only.
TAKEOFF RUNWAY 4R: Climb heading 035° to 520, then direct NHANT, then on track 091° to cross HURBE at or above 4000, thence....
TAKEOFF RUNWAY 9: Climb heading 092° to 520, then direct CLAWW, cross CLAWW at or above 4000, thence....
TAKEOFF RUNWAY 15R: Climb heading 150° to intercept course 131° to FOXXX, do not exceed 210K until 520 MSL, thence....
TAKEOFF RUNWAY 22L: Climb heading 215° to intercept course 139° to TJAYY, do not exceed 210K until 520 MSL, thence....
TAKEOFF RUNWAY 22R: Climb heading 215° to intercept course 143° to TJAYY, do not exceed 210K until 520 MSL, thence....
TAKEOFF RUNWAY 27: Climb heading 272° to intercept course 234° to KIRAA, thence....
TAKEOFF RUNWAY 33L: Climb heading 330° to intercept course 313° to TEKKK, then on track 250° to cross COUSY at or above 5000, thence....

...on depicted route to SSOXS. Maintain 5000 or lower assigned altitude. Expect clearance to filed altitude/flight level within ten (10) minutes after departure.
DEPARTURE ROUTE DESCRIPTION

TAKEOFF Rwy 27: Climb heading 272° to intercept course 234° to cross WYLYY at or above 2300, then on depicted route to CYOTI, thence...

...expect vectors to assigned fix/NAVAID (see notes). Maintain 5000 or lower assigned altitude. Expect clearance to filed altitude/flight level within ten (10) minutes after departure.

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

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

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

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<th>DESCRIPTION*</th>
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<td>Confusing twy int.</td>
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<tr>
<td>LAURENCE G. HANSCOM FIELD (BED)</td>
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<td></td>
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<td>BEVERLY, MA</td>
<td>HS 1</td>
<td>Rwy hold line at East Ramp exit.</td>
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<td>BEVERLY RGNL (BVY)</td>
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<td>HS 2</td>
<td>Int of Twy E and Twy H.</td>
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<tr>
<td>BOSTON, MA</td>
<td>HS 1</td>
<td>Maintain vigilance when taxiing on Rwy 15L-33R apch Rwy 04L-22R.</td>
</tr>
<tr>
<td>GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)</td>
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<td>HS 2</td>
<td>Twy N and Rwy 15R-33L.</td>
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<tr>
<td>HS 3</td>
<td>Maintain vigilance on Twy E and Twy K when apch Rwy 04L-22R.</td>
<td></td>
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<tr>
<td>HS 4</td>
<td>Maintain vigilance on Twy C when apch Rwy 09-27.</td>
<td></td>
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<tr>
<td></td>
<td>Maintain vigilance on Twy D when apch Rwy 15R-33L.</td>
<td></td>
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<tr>
<td>BURLINGTON, VT</td>
<td>HS 1</td>
<td>Wrong rwy departure risk.</td>
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<tr>
<td>BURLINGTON INTL (BTV)</td>
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<tr>
<td>HS 2</td>
<td>Rwy 01-19 and Twy C.</td>
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<tr>
<td>DANBURY, CT</td>
<td>HS 1</td>
<td>Maintain vigilance confusing twy configuration. Pilots unfamiliar should ask for progressives.</td>
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<td>DANBURY MUNI (DXR)</td>
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<tr>
<td>HS 2</td>
<td>Area not visible from the twr.</td>
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<td>HS 3</td>
<td>Active ramp adjacent to twy.</td>
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<td>HS 4</td>
<td>Hold position on Twy C for Rwy 26.</td>
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<td>GROTON (NEW LONDON), CT GROTON-NEW LONDON (GON)</td>
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<td>Rwy 15-33 at Twy C and Twy B.</td>
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<td>Rwy 15-33 at Twy J and Twy B.</td>
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<td>HARTFORD, CT</td>
<td>HS 1</td>
<td>Twy A and Twy H near the helipad.</td>
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<td>HARTFORD-BRAINARD (HFD)</td>
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<tr>
<td>LAWRENCE, MA</td>
<td>HS 1</td>
<td>Rwy 05-23 and Twy E.</td>
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<tr>
<td>LAWRENCE MUNI (LWM)</td>
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<td>HS 2</td>
<td>Rwy 14-32 and Twy A.</td>
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<tr>
<td>HS 3</td>
<td>Rwy 05-23 and Twy D.</td>
<td></td>
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<tr>
<td>LEBANON, NH</td>
<td>HS 1</td>
<td>Unusual location for rwy hold position marking on Twy B for Rwy 25.</td>
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<td>LEBANON MUNI (LEB)</td>
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<tr>
<td>HS 2</td>
<td>A portion of Twy B and North Ramp not visible from the control twr.</td>
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<tr>
<td>HS 3</td>
<td>Acft routinely back taxi on Rwy 18-36.</td>
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<tr>
<td>MANCHESTER, NH</td>
<td>HS 1</td>
<td>Confusing rwy hold marking location.</td>
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<tr>
<td>MANCHESTER (MHT)</td>
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<tr>
<td>NANTUCKET, MA</td>
<td>HS 1</td>
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<tr>
<td>NANTUCKET MEMORIAL (ACK)</td>
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<tr>
<td>HS 2</td>
<td>High traffic area.</td>
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</tr>
<tr>
<td>HS 3</td>
<td>High traffic area.</td>
<td></td>
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</table>

*(SEE CONTINUATION PAGE FOR MORE LISTINGS)*
## HOT SPOTS

**(CONTINUED)**

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<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>PORTLAND INTL JETPORT (PWM)</td>
<td>HS 1</td>
<td>Twy C and Twy A in close proximity of Rwy 11-29.</td>
</tr>
<tr>
<td></td>
<td>HS 2</td>
<td>Acft taxiing northbound on Twy C must maintain vigilance apch the Rwy 18 hold short marking which is located further south on Twy C than most pilots would anticipate.</td>
</tr>
<tr>
<td>PROVIDENCE, RI</td>
<td></td>
<td></td>
</tr>
<tr>
<td>THEODORE FRANCIS GREEN STATE (PVD)</td>
<td>HS 1</td>
<td>Complex twy int in close proximity of rwy.</td>
</tr>
<tr>
<td></td>
<td>HS 2</td>
<td>Complex rwy/twy int.</td>
</tr>
<tr>
<td></td>
<td>HS 3</td>
<td>Complex twy int in close proximity of rwy.</td>
</tr>
<tr>
<td></td>
<td>HS 4</td>
<td>Maintain vigilance dep northwest ramp. Twy S is immed adj to northwest ramp. Acft could inadvertently enter Rwy 16-34.</td>
</tr>
<tr>
<td>WESTFIELD/SPRINGFIELD, MA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WESTFIELD-BARNES RGNL (BAF)</td>
<td>HS 1</td>
<td>Maintain vigilance departing ramp. Twy A and Twy B complex int in close proximity to Rwys.</td>
</tr>
<tr>
<td></td>
<td>HS 2</td>
<td>Unusual location for Rwy hold position marking on Twy A for Rwy 15.</td>
</tr>
<tr>
<td>WINDSOR LOCKS, CT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BRADLEY INTL (BDL)</td>
<td>HS 1</td>
<td>Twy C and Twy E complex int in close proximity to Rwy 01-19.</td>
</tr>
<tr>
<td></td>
<td>HS 2</td>
<td>Aircraft on Twy S missing Twy C may enter Rwy 24.</td>
</tr>
<tr>
<td></td>
<td>HS 3</td>
<td>Aircraft on Twy J missing Twy S may enter Rwy 33.</td>
</tr>
</tbody>
</table>

*See appropriate Chart Supplement HOT SPOT table for additional information.*
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

ILS RWY 33L (CAT II & III)

DME or RADAR required.
CAT II: RVR 1000 authorized with specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown.

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 on BOS VOR/DME R-030 to WAXEN INT/BOS 14 DME and hold.

RADAR REQUIRED

ELEV 19 TDZE 16

TDZ/CL Rwys 4R, 15R and 33L
REIL Rwys 4L, 27 and 32
MIIR Rwy 15L-33R
HIIR Rwys 4L-22L, 4R-22L, 9-27, 14-32 and 15R-33L

CATEGOR III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED
GENERAL EDWARD LAWRENCE LOGAN INTL

ILS RWY 33L (SA CAT I)

SA CATEGORY I - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

BOSTON, MASSACHUSETTS

LOC/DME I-LIP APP CRS Rwy Ldg TDZE Apt Elev
110.7 330° 10083 16 19

MISSED APPROACH: Climb to 1,500 then climbing right turn to 3,000 on BOS VOR/DME R-030 to WAXEN INT/BOS 1.4 DME and hold.

AIRCRAFT CERTIFICATION REQUIRED

RADAR REQUIRED

SA CATEGORY I - SPECIAL AIRCREW
 & AIRCRAFT CERTIFICATION REQUIRED

BOSTON, MASSACHUSETTS

 GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

42°22'N-71°00'W

ILS RWY 33L (SA CAT I)
Amdt 11  26MAR20

BOSTON TOWER
126.8  257.8 (WEST)
132.225 257.8 (EAST)

GND CON
121.9  121.75
121.65  257.8

CLNC DEL
120.6  263.1

APP CRS
110.3  035°

LOC/DME
I-BOS
110.3

Rwy Idg
8851

TDZE
18

Apt Elev
19

D-ATIS
135.0

MISSED APPROACH: Climb
R-030 to WAXEN INT/BOS
14 DME and hold.

ILS RWY 4R (CAT II & III)
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

RNAV 1-GPS or RADAR required for procedure entry. DME or RADAR required.

When control tower reports tall vessels in approach area, procedure NA.
RVR 1000 authorized with specific OPSEC, MSPEC or LOA approval and use of Autoland or HUD to touchdown.

 categorical II & III ILS - SPECIAL AIRCREW 
& AIRCRAFT CERTIFICATION REQUIRED

BOSTON, MASSACHUSETTS
AL-58 (FAA) 20086

General Edward Lawrence Logan Int'l (BOS)
42°22'N-71°00'W

GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

ILS RWY 4R (CAT II & III)

Refl. Rwy 4L, 27 and 32
MIRL Rwy 15L-33R
HIRL Rwy 4L-22R, 4R-22L
9-27, 14-32 and 15R-33L

Amdt 11  26MAR20

NE-1, 10 SEP 2020 to 08 OCT 2020

NE-1, 10 SEP 2020 to 08 OCT 2020
ILS RWY 4R (SA CAT I)
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

Amdt 11  26MAR20

SA CATEGORY 1 ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

BOSTON, MASSACHUSETTS

MSCS

A

B

C

D

42°22′N-71°00′W

AL-58 (FAA)
ILS or LOC RWY 15R

GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

D-ATIS 135.0

BOSTON APP CON 120.6 263.1

BOSTON TOWER 128.8 257.8 (WEST)

BOSTON TOWER 132.225 257.8 (EAST)

MALDY I-MDC 6.5

ZASMU I-MDC 1.8

WOBUR INT I-MDC 10.5

CIRCLING 490°

GS 3.00° TCH 60

LOCALIZER 110.7 I-MDC Chan 44

LODG 300 (300-100)

LOCALIZER 110.7 I-MDC Chan 44

LOC offset 1.60°

PROCEDURE NA for arrival on GDM VOR/DME airway radials 071 CW 111.

Procedure NA for arrival on GDM VOR/DME airway radials 071 CW 111.

Process NA for arrival on GDM VOR/DME airway radials 071 CW 111.

Process NA for arrival on GDM VOR/DME airway radials 071 CW 111.

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Process NA for arrival on GDM VOR/DME airway radials 071 CW 111.

Process NA for arrival on GDM VOR/DME airway radials 071 CW 111.
Amdt 3  26MAR20
Note: From SCUPP, LOBBY, and KRANN:
Expect radar vectors to intercept the BOS R-128 inbound. When cleared for the visual, proceed on the BOS 308° VOR/DME course to Boston Light.
Circling NA to Rwy 14. Circling NA for Cats C and D west of Rwy 4L and 15R. For inoperative ALS, increase LNAV/VNAV Cat D visibility to RVR 6000 and LNAV Cat D visibility to 1 1/2 SM. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -13°C (9°F) or above 43°C (109°F). MSAP FIX: Climb to 3000 direct WINNI and hold.

**MISSED APCH FIX**

- WINNI
  - 4 NM

**ELEVATION**

- 19
- TDZE 16

**RADAR REQUIRED**

**3000 WINNI**

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00°/TCH 71).

- LNAV only.
- 1.4 NM to RW22L
- 3000

**ZUMOL**

- 2 NM to RW22L
- 161°

**WYANE**

- 215°

**NOLEY**

- 215°
- 4000

**GP 3.00° TCH 55°**

**CATEGORY**

- A
- B
- C
- D

**LPV DA**

- 216/40
- 200 (200-3/4)

**LNAV/VNAV DA**

- 408/50
- 392 (400-1)

**LNAV MDA**

- 540/40
- 524 (600-3/4)
- 540 1/4
- 524 (600-1/4)

**CIRCLING**

- 960-1 1/4
- 1060-1 1/2
- 640-1 3/4
- 640-2

**SYSTEMS, LNAV/VNAV NA below -13°C (9°F) or above 43°C (109°F).**

**RVR 6000 and LNAV Cat D visibility to 1 1/2 SM. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -13°C (9°F) or above 43°C (109°F).**
RNAV (GPS) RWY 32
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

**APP CRS**
<table>
<thead>
<tr>
<th>Category</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>LNAV MDA</td>
<td>820-1</td>
<td>820-1½</td>
<td>820-2½</td>
<td>801 (900-2½)</td>
</tr>
<tr>
<td>CIRCLING</td>
<td>960-1¼</td>
<td>1060-1½</td>
<td>1041 (1100-1½)</td>
<td>820-2½</td>
</tr>
</tbody>
</table>

**ELEV**
- 5000
- 19

**TDZE**
- 19

**BOSTON TOWER**
- 128.8
- 257.8 (WEST)
- 132.225
- 257.8 (EAST)

**BOSTON APP CON**
- 120.6
- 263.1

**GND CON**
- 121.9
- 121.75

**CLNC DEL**
- 121.65
- 257.8

**CPDLC**

**D-ATIS**
- 135.0

**Rwy Idg**
- 5000

**Apt Elev**
- 19

**Final approach course offset**
- 10.05°

**MISSED APCH FIX**
- 5 NM

**A1352**

**A531**

**MISSED APPROACH:** Climb to 3000 direct WINDZ and on track 284° to TELLE and hold.

**DME/DME RNP-0.3 NA.** Circling NA to Rwy 14. Circling NA for Cats C and D west of Rwy 4L and 15R.

**Procedure NA for arrivals at WOONS on V3-16 southwest bound.**

**Procedure NA for arrivals at INNDY on V139-268 southwest bound.**

**Nearest AP**
- TDZE

**REIL Rwy 4R, 15R and 33L**
- MIRL Rwy 15L-33R
- HIRL Rwy 4L-22R, 4R-22L, 9-27, 14-32 and 15R-33L

**RNAV (GPS) RWY 32**

**General Edward Lawrence Logan Intl (BOS)**

**Orig-G** 12OCT17

**BOSTON, MASSACHUSETTS**

**APP CRS**
- 331°

**Rwy Idg**
- 5000

**Apt Elev**
- 19

**APP CRS**

**ELEV**
- 19

**TDZE**
- 19

**BOSTON APP CON**
- 120.6
- 263.1

**GND CON**
- 121.9
- 121.75

**CLNC DEL**
- 121.65
- 257.8

**CPDLC**

**NE-1, 10 SEP 2020 to 08 OCT 2020**
RNAV (GPS) RWY 33L
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

D-ATIS
135.0

BOSTON APP CON
120.6 263.1

BOSTON TOWER
128.8 257.8 (WEST)
132.225 257.8 (EAST)

NE-1, 10 SEP 2020 to 08 OCT 2020
Circling NA to Rwy 14. Circling NA for Cats C/D west of Rwys 4L and 15R.

For inop ALS increase LNAV/ VNAV all Cats visibility to 1/2 SM. When control tower reports tall vessels in approach area: increase LPV DA to 374 and all Cats visibility to RVR 4000, increase LNAV Cat A/B visibility to RVR 4000; for inop ALS with tall vessels increase LNAV/VNAV all Cats visibility to 1/2 SM, LNAV Cat A/B visibility to RVR 5500 and LNAV Cat C/D to 1/2 SM. For tall vessels Rwy 4R helicopter visibility reduction below RVR 4000 NA. When vessels taller than 144 feet present, LPV and LNAV/VNAV NA.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. RVR 4000 NA. When vessels taller than 144 feet present, LPV and LNAV/VNAV NA.

LPV DA 218/18 200 (200-1/2)
LNAV/ VNAV DA 514/50 496 (500-1)
LNAV MDA 480/24 462 (500-1/2) 480/50 462 (500-1)
CIRCLING 940-1 1/4 1040-1 1/2 620-1 1/4 620-2 620-3 1/2 RVR 4000

ALSF-2

MISSED APPROACH: Climb to 3000 direct OMVOZ and on track 032° to WAXEN and hold.

D-ATIS 135.0
BOSTON APP CON 120.6 263.1
BOSTON TOWER 128.8 257.8 [WEST] 132.225 257.8 [EAST]
GND CON 121.9 121.75
CLNC DEL 121.65 257.8
CPDLC

AL-58 (FAA)
20086

RNAV (GPS) RWY 4R
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

NE-1, 10 SEP 2020 to 08 OCT 2020
Circling NA to Rwy 14. Circling NA for Cats C and D west of Rwy 4L and 15R.

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 on BOS VOR/DME R-030 to WAXEN INT/BOS 14 DME and hold.
**LAND AND HOLD-SHORT OPERATIONS (LAHSO)**

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

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

<table>
<thead>
<tr>
<th>CITY/AIRPORT</th>
<th>LDG RWY</th>
<th>HOLD-SHORT POINT</th>
<th>AVBL LDG DIST</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BEDFORD, MA</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LAURENCE G. HANSCOM FIELD (BED)</td>
<td>05</td>
<td>11-29</td>
<td>3,000 feet</td>
</tr>
<tr>
<td></td>
<td>11</td>
<td>05-23</td>
<td>2,650 feet</td>
</tr>
<tr>
<td></td>
<td>29</td>
<td>05-23</td>
<td>3,662 feet</td>
</tr>
<tr>
<td><strong>BEVERLY, MA</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BEVERLY RGNL (BVY)</td>
<td>09</td>
<td>16-34</td>
<td>3,450 feet</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>09-27</td>
<td>4,000 feet</td>
</tr>
<tr>
<td><strong>BOSTON, MA</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)</td>
<td>04L</td>
<td>15L-33R</td>
<td>5,250 feet</td>
</tr>
<tr>
<td></td>
<td>15R</td>
<td>09-27</td>
<td>6,800 feet</td>
</tr>
<tr>
<td></td>
<td>22L</td>
<td>09-27</td>
<td>6,400 feet</td>
</tr>
<tr>
<td></td>
<td>27</td>
<td>04R-22L</td>
<td>5,650 feet</td>
</tr>
<tr>
<td><strong>BRIDGEPORT, CT</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IGOR I. SIKORSKY MEMORIAL (BDR)</td>
<td>06</td>
<td>11-29</td>
<td>3,700 feet</td>
</tr>
<tr>
<td></td>
<td>11</td>
<td>06-24</td>
<td>3,350 feet</td>
</tr>
<tr>
<td><strong>BURLINGTON, VT</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BURLINGTON INTL (BTV)</td>
<td>01</td>
<td>15-33</td>
<td>2,600 feet</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>Twy A</td>
<td>3,600 feet</td>
</tr>
<tr>
<td></td>
<td>33</td>
<td>01-19</td>
<td>2,900 feet</td>
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<tr>
<td><strong>HYANNIS, MA</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>BARNSTABLE MUNI-BOARDMAN/ POLANDO FIELD (HYA)</td>
<td>15</td>
<td>06-24</td>
<td>4,150 feet</td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>15-33</td>
<td>4,650 feet</td>
</tr>
<tr>
<td><strong>NANTUCKET, MA</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NANTUCKET MEMORIAL (ACK)</td>
<td>06</td>
<td>15-33</td>
<td>4,316 feet</td>
</tr>
<tr>
<td></td>
<td>33</td>
<td>06-24</td>
<td>3,650 feet</td>
</tr>
<tr>
<td><strong>NORWOOD, MA</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NORWOOD MEMORIAL (OWD)</td>
<td>35</td>
<td>10-28</td>
<td>3,320 feet</td>
</tr>
<tr>
<td><strong>PORTLAND, ME</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PORTLAND INTL JETPORT (PWM)</td>
<td>11</td>
<td>18-36</td>
<td>5,800 feet</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td>11-29</td>
<td>3,100 feet</td>
</tr>
<tr>
<td><strong>WINDSOR LOCKS, CT</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BRADLEY INTL (BDL)</td>
<td>06</td>
<td>01-19</td>
<td>6,000 feet</td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>15-33</td>
<td>5,850 feet</td>
</tr>
<tr>
<td></td>
<td>33</td>
<td>06-24</td>
<td>4,550 feet</td>
</tr>
</tbody>
</table>
## IFR Alternate Minimums

Standard alternate minimums for non-precision approaches and approaches with vertical guidance [NDB, VOR, LOC, TACAN, LDA, SDF, VOR/DME, ASR, RNAV (GPS) or RNAV (RN P)] 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.

### Alternate Minimums Table

<table>
<thead>
<tr>
<th>NAME</th>
<th>ALTERNATE MINIMUMS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AUBURN/LEWISTON, ME</strong></td>
<td></td>
</tr>
<tr>
<td>AUBURN/LEWISTON MUNI (LEW)</td>
<td>ILS or LOC Rwy 4¹</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 4²</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 22³</td>
</tr>
<tr>
<td>¹ILS, Categories A, B, 800-2; Category C, 800-2½; Category D, 900-2½; LOC, NA.</td>
<td></td>
</tr>
<tr>
<td>²Category C, 800-2½; Category D, 900-2½; LOC, NA.</td>
<td></td>
</tr>
<tr>
<td>³NA when local weather not available.</td>
<td></td>
</tr>
<tr>
<td><strong>AUGUSTA, ME</strong></td>
<td></td>
</tr>
<tr>
<td>AUGUSTA STATE (AUG)</td>
<td>ILS or LOC Rwy 17¹</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 8</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 17</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 35²</td>
</tr>
<tr>
<td></td>
<td>VOR Rwy 35²</td>
</tr>
<tr>
<td>NA when local weather not available.</td>
<td></td>
</tr>
<tr>
<td>¹ILS, Categories B, C, D, 700-2.</td>
<td></td>
</tr>
<tr>
<td>²Category D, 800-2½.</td>
<td></td>
</tr>
<tr>
<td>³Category C, 800-2½; Category D, 800-2½.</td>
<td></td>
</tr>
<tr>
<td><strong>BANGOR, ME</strong></td>
<td></td>
</tr>
<tr>
<td>BANGOR INTL (BGR)</td>
<td>ILS or LOC Rwy 33¹</td>
</tr>
<tr>
<td></td>
<td>ILS Y or LOC Y Rwy 15²</td>
</tr>
<tr>
<td></td>
<td>RADAR-1³</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 15³</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 33³</td>
</tr>
<tr>
<td>¹ILS, LOC, Categories A, B, 1200-2; Categories C, D, E, 1200-3.</td>
<td></td>
</tr>
<tr>
<td>²ILS, Category D, 700-2; Category E, 700-2½; LOC, Category E, 800-2½.</td>
<td></td>
</tr>
<tr>
<td>³Category E, 800-2½.</td>
<td></td>
</tr>
<tr>
<td><strong>BAR HARBOR, ME</strong></td>
<td></td>
</tr>
<tr>
<td>HANCOCK COUNTY BAR HARBOR (BHB)</td>
<td>ILS or LOC Rwy 22¹</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 4</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 22</td>
</tr>
<tr>
<td>NA when local weather not available.</td>
<td></td>
</tr>
<tr>
<td>¹ILS, Categories C, D, 700-2.</td>
<td></td>
</tr>
<tr>
<td><strong>BEDFORD, MA</strong></td>
<td></td>
</tr>
<tr>
<td>LAURENCE G HANSCOM FLD (BED)</td>
<td>ILS or LOC Rwy 11¹²</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Rwy 29¹²</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Z Rwy 11³</td>
</tr>
<tr>
<td></td>
<td>RNAV (GPS) Z Rwy 29³</td>
</tr>
<tr>
<td>¹NA when control tower closed.</td>
<td></td>
</tr>
<tr>
<td>²LOC, Category C, 800-2½; Category D, 800-2½.</td>
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<td>³Category C, 800-2½; Category D, 800-2½.</td>
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<td>⁴NA when local weather not available.</td>
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<td>BERLIN RGNL (BML)</td>
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<td>¹Category D, 800-2½.</td>
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<td><strong>BLOCK ISLAND, RI</strong></td>
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<td>ILS or LOC Rwy 22L</td>
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<td>ILS or LOC Rwy 27L</td>
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<td>VOR/DME-A 8</td>
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<td>RNAV (GPS) Rwy 35L</td>
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<td>Category D, 900-2½.</td>
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<td>RNAV (GPS) Rwy 5&lt;sup&gt;2&lt;/sup&gt;</td>
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<td>RNAV (GPS) Rwy 14&lt;sup&gt;2&lt;/sup&gt;</td>
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<td>RNAV (GPS) Rwy 23&lt;sup&gt;2&lt;/sup&gt;</td>
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<td>RNAV (GPS) Rwy 32&lt;sup&gt;2&lt;/sup&gt;</td>
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<td>FITCHBURG MUNI (FIT)</td>
<td>RNAV (GPS) Rwy 20&lt;sup&gt;2&lt;/sup&gt;</td>
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<td>RNAV (GPS) Rwy 32&lt;sup&gt;2&lt;/sup&gt;</td>
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<td>NORTHERN AROOSTOOK RNGL (FVE)</td>
<td>RNAV (GPS) Rwy 32</td>
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<td>EASTERN SLOPES RNGL (IZG)</td>
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<td>GREENVILLE MUNI (3B1)</td>
<td>RNAV (GPS) Rwy 14</td>
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<td>GROTON (NEW LONDON), CT</td>
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<td>HARTFORD, CT</td>
<td>RNAV (GPS) Rwy 21&lt;sup&gt;3&lt;/sup&gt;</td>
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<td>HARTFORD-BRAINARD (HFD)</td>
<td>RNAV (GPS) Rwy 21&lt;sup&gt;3&lt;/sup&gt;</td>
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<td>VOR-A&lt;sup&gt;1&lt;/sup&gt;</td>
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<td>HIGHGATE, VT</td>
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<td>HOUPTON, ME</td>
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<td>BARNSTABLE MUNI-BOARDMAN/ POLANDO FIELD (HYA)</td>
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<td>RNAV (GPS) Rwy 24&lt;sup&gt;12&lt;/sup&gt;</td>
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<td>RNAV (GPS) Rwy 15&lt;sup&gt;5&lt;/sup&gt;</td>
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<td>RNAV (GPS) Rwy 24&lt;sup&gt;4&lt;/sup&gt;</td>
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<td>RNAV (GPS) Rwy 33&lt;sup&gt;3&lt;/sup&gt;</td>
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<td>VOR Rwy 6&lt;sup&gt;4&lt;/sup&gt;</td>
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<td>JACKMAN, ME</td>
<td>RNAV (GPS) Y Rwy 31&lt;sup&gt;3&lt;/sup&gt;</td>
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<td>NEWTON FIELD (59B)</td>
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<td>VOR Rwy 2&lt;sup&gt;2&lt;/sup&gt;</td>
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<td>NDB Rwy 8&lt;sup&gt;2&lt;/sup&gt;</td>
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<td>CALEDONIA COUNTY (CDA)</td>
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<td>VOR Rwy 16</td>
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<td>NORWOOD, MA</td>
<td>LOC Rwy 35</td>
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<td>RNAV (GPS) Rwy 35</td>
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<td>Categories C, D, 1200-3.</td>
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<tr>
<td>ORANGE, MA</td>
<td>RNAV (GPS) Rwy 32</td>
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<tr>
<td></td>
<td>VOR-A</td>
</tr>
<tr>
<td></td>
<td>NA when local weather not available.</td>
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<tr>
<td></td>
<td>1 Categories A, B, 1400-2; Categories C, D, 1400-3.</td>
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<tr>
<td>OXFORD, CT</td>
<td>RNAV (GPS) Rwy 18</td>
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<td>RNAV (GPS) Rwy 36</td>
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<td>Category D, 800-2½.</td>
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<tr>
<td>PORTLAND, ME</td>
<td>ILS or LOC Rwy 11</td>
</tr>
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<td>RNAV (GPS) Rwy 29</td>
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<tr>
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<td>RNAV (GPS) Rwy 18</td>
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<td>RNAV (GPS) Rwy 29</td>
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<td>RNAV (GPS) Rwy 36</td>
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<td>1 NA when approach control closed.</td>
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<td>2 NA when local weather not available.</td>
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<tr>
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<td>3 ILS, Category C, 700-2; Category D, 800-2½.</td>
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<td></td>
<td>4 LOC, Category D, 800-2½.</td>
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<tr>
<td></td>
<td>5 Categories A, B, C, 700-2; Category D, 800-2½.</td>
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<tr>
<td></td>
<td>6 LOC, Category D, 800-2½.</td>
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<td>PRESCUE ISLE, ME</td>
<td>ILS or LOC Rwy 1</td>
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<td>RNAV (GPS) Rwy 1</td>
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<td>RNAV (GPS) Rwy 19</td>
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<td>RNAV (GPS) Rwy 28</td>
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<td>VOR Rwy 19</td>
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<tr>
<td></td>
<td>1 LOC, Category C, 800-2½; Category D, 900-2½.</td>
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<tr>
<td></td>
<td>2 Category C, 800-2½; Category D, 900-2½.</td>
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<tr>
<td>NAME</td>
<td>ALTERNATE MINIMUMS</td>
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<td>---------------------------</td>
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<tr>
<td>PROVIDENCE, RI</td>
<td></td>
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<tr>
<td>Theodore Francis Green</td>
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<td>STATE (PVD)</td>
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<tr>
<td>PROVINCETOWN, MA</td>
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<tr>
<td>Provincetown Muni (PVC)</td>
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<tr>
<td>RUTLAND, VT</td>
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<td>Rutland - Southern Vermont</td>
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<td>SPRINGFIELD, VT</td>
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<td>Springfield State</td>
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<td>TAUNTON, MA</td>
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<td>Taunton Muni-King Field</td>
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<td>VINEYARD HAVEN, MA</td>
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<td>Martha's Vineyard</td>
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<td>WATERVILLE, ME</td>
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<tr>
<td>Waterville Robert Lafleur</td>
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</table>

**Providence, RI**
- ILS or LOC Rwy 23
- ILS or LOC Rwy 34
- RNAV (GPS) Rwy 5
- RNAV (GPS) Rwy 16
- RNAV (GPS) Y Rwy 23
- VOR Rwy 5
- VOR/DME Rwy 16
- VOR Y Rwy 34
- VOR Z Rwy 34

1. ILS, LOC, Category D, 900-2½.
2. NA when control tower closed.

**Provincetown, MA**
- RNAV (GPS) Rwy 7
- RNAV (GPS) Rwy 25

NA when local weather not available.

**Rutland, VT**
- ILS Y or LOC Y Rwy 19
- RNAV (GPS) Y Rwy 19
- RNAV (GPS) Z Rwy 19

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

**Springfield, VT**
- RNAV (GPS) Rwy 5
- RNAV (GPS) Rwy 32
- VOR Rwy 25

NA when local weather not available. Category C, 1000-2½; Category D, 1000-3.

**Taunton, MA**
- RNAV (GPS) Rwy 12

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

**Waterville, ME**
- RNAV (GPS) Rwy 5
- RNAV (GPS) Rwy 23

NA when local weather not available.
<table>
<thead>
<tr>
<th>NAME</th>
<th>ALTERNATE MINIMUMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>WESTFIELD/SPRINGFIELD, MA</td>
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<tr>
<td>WESTFIELD- BARNES RGNL (BAF)</td>
<td>ILS or LOC Rwy 20(^1)</td>
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<td>RNAV (GPS) Rwy (^2)</td>
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<tr>
<td></td>
<td>RNAV (GPS) Rwy (^3)</td>
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<tr>
<td></td>
<td>VOR or TACAN Rwy (^2)</td>
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<tr>
<td></td>
<td>VOR Rwy (^3)</td>
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<td>NA when local weather not available.</td>
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<tr>
<td>(^1)ILS, LOC Categories A, B, 1000-2; Category C, 1000-3; Categories D, E, 1400-3.</td>
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<td>(^2)Categories A, B, 1100-2; Category C, 1100-3; Categories D, E, 1400-3.</td>
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<tr>
<td>(^3)Categories A, B, 900-2; Category C, 900-2¾; Categories D, E, 1400-3.</td>
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<tr>
<td>(^4)NA when tower closed.</td>
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<tr>
<th>NAME</th>
<th>ALTERNATE MINIMUMS</th>
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<tr>
<td>WHITEFIELD, NH</td>
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<tr>
<td>MOUNT WASHINGTON</td>
<td>RNAV (GPS) Y Rwy (^1)</td>
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<td></td>
<td>RNAV (GPS) Z Rwy (^2)</td>
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<td>(^1)Categories A, B, 900-2; Category C, 900-2¾.</td>
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<tr>
<th>NAME</th>
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<tr>
<td>WILLIMANTIC, CT</td>
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<tr>
<td>WINDHAM (IJD)</td>
<td>RNAV (GPS) Rwy (^1)</td>
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<td>RNAV (GPS) Rwy (^2)</td>
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<td>VOR-A (^3)</td>
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<tr>
<td>(^1)Category C, 800-2¾.</td>
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<tr>
<td>(^2)NA when local weather not available.</td>
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<tr>
<th>NAME</th>
<th>ALTERNATE MINIMUMS</th>
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<tr>
<td>WINDSOR LOCKS, CT</td>
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<tr>
<td>BRADLEY</td>
<td>ILS or LOC Rwy 6(^1)</td>
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<td>ILS or LOC Rwy (^2)</td>
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<td>ILS or LOC Rwy (^3)</td>
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<tr>
<td></td>
<td>RNAV (GPS) Rwy (^4)</td>
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<tr>
<td></td>
<td>RNAV (GPS) Y Rwy (^5)</td>
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<tr>
<td>(^1)ILS, LOC, Categories A, B, 1000-2; Category C, 1000-3; Category D, 1100-3.</td>
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</tr>
<tr>
<td>(^2)LOC, Category C, 1000-2½; Category D, 1100-3.</td>
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</tr>
<tr>
<td>(^3)Categories A, B, 900-2½; Category C, 1000-2¾.</td>
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<tr>
<td>(^4)Category C, 1000-2¾; Category D, 1100-3.</td>
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<tr>
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<tr>
<td>WISCASSET, ME</td>
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<tr>
<td>WISCASSET (IWI)</td>
<td>RNAV (GPS) Rwy (^6)</td>
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<td>RNAV (GPS) Rwy 25</td>
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<td>NA when local weather not available.</td>
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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

TAKEOFF MINIMUMS, (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, 500-2/4 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 1200-2/2 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 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/376' MSL.
Terrain 276' from DER, 302' right of centerline, 0' AGL/299' MSL.
Radar 1.9 NM 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

IFR TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

INSTRUMENT APPROACH PROCEDURE CHARTS

Civil and Selected Military Airports

INSTRUMENT APPROACH PROCEDURE CHARTS

Civil Airports and Selected Military Airports

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

Rwy 33, 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 207’ from DER, 47’ left of centerline, up to 100’ AGL/445’ MSL.

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.

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/688’ 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.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

BAR HARBOR, ME
HANCOCK COUNTY-BAR HARBOR (BHB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4A 07MAR13 (13066) (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.
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/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 MPV/VOR/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/1139' MSL.
Trees beginning 347' from DER, crossing centerline, up to 100' AGL/1199' MSL.
Rwy 35, 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, 539' right 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 60' AGL/1195' MSL.
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:
Pole 2801' from DER, 702' left of centerline, up to 27' AGL/1202' MSL.
Rwy 35, bushes 74' from DER, 288' left of centerline, up to 10' AGL/1094' 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.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

BEDFORD, MA
LAURENCE G. HANSCOM FIELD (BED)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 6 27JUN13 (13178) (FAA)
TAKEOFF MINIMUMS:

**Rwy 11**, 300-1½ or std. w/ min. climb of 251’ 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.

**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 1675’ 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.

**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.

Trees and buildings, and tower beginning 1588’ from DER, 88’ left and 138’ right of centerline, up to 95’ AGL/235’ MSL.

**Rwy 31**, multiple trees beginning 3721’ from DER, 48’ left and 4’ right of centerline, up to 100’ AGL/379’ MSL.

Trees, buildings, and terrain 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**, 300-1½ 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.
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 1738’ from DER, left to right of centerline, up to 7’ AGL/1118’ 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/1245’ 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/1383’ MSL.
Rwys 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 3.2 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
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 1262’ 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, 162’ 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, 900’ 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’ right 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.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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 144' 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/136' 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, 793' 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.
Bush 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, bush 15' from DER, 417' left of centerline, 87' MSL.
Rwy sign 17' from DER, 198' left of centerline, 3' AGL/85' MSL.
NT Rwy 14, bush 15' from DER, 417' left of centerline, 87' 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 269' 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.
Bush beginning 481' from DER, 618' 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.
Grnd 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.

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

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 698’ 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, 284’ 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 1064’ from DER, 173’ right of centerline, 26’ AGL/111’ MSL.
Pole 1086’ from DER, 434’ right of centerline, 28’ AGL/162’ MSL.
Grd beginning 1106’ 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 31’ 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.
Bush 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.
Tree beginning 535’ from DER, 249’ right of centerline, up to 82’ 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 2358’ 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, 72’ right of centerline, 97’ AGL/157’ MSL.
Bush beginning 3321’ from DER, 1083’ right of centerline, up to 89’ AGL/185’ MSL.
Bushes beginning 3437’ 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.
Bldg beginning 5490’ from DER, 530’ left of centerline, up to 108’ AGL/217’ MSL.
Rwy 34, NI MALS 1’ 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, 56’ AGL/152’ MSL.

CONT

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

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

BOSTON, MA

GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 14A  12OCT17  (17285)  (FAA)

TAKEOFF MINIMUMS:

Rwys 32, 33R, NA - environmental.

Rwy 4L, 300-1 or std. w/min. climb of 358' per NM to 300.

Rwy 9, 300-1/4 or std. w/min. climb of 272' per NM to 300.

Rwy 14, 300-1/4 or std. w/min. climb of 225' per NM to 300, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1600' prior to DER.

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

Rwy 22R, 400-1/4 or std. w/min. climb of 320' per NM to 500.

Rwy 27, std. w/min. climb of 477' per NM to 1300.

Rwy 33L, 300-1/4 or std. w/min. climb of 224' 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 4L, climb on a heading between 291° CW to 214° from DER, or min. climb of 210' per NM to 1100 for all other courses.

Rwy 14, climb on a heading between 321° CW to 257° from DER, or min. climb of 236' per NM to 1100 for all other courses.

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

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

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

TAKEOFF OBSTACLE NOTES:

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

Tower and pole beginning 1803' from DER, 701' right of centerline, up to 56' AGL/68' MSL.

Trees beginning 2278' from DER, 678' right of centerline, up to 57' AGL/77' MSL.

Building and trees beginning 3972' from DER, 543' left of centerline, up to 50' AGL/198' MSL.

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

Trees, pole, and tower beginning 1807' from DER, 382' left of centerline, up to 30' AGL/68' MSL.

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

Rwy 9, ships beginning 761' from DER, on centerline, up to 65' AGL/65' MSL.

Terrain and obstacle light beginning 5883' from DER, 1453' left of centerline, up to 120' AGL/217' MSL.

Rwy 14, terrain 77' from DER, 454' left of centerline, 23' MSL.

Building and ASR 462' from DER, 324' left of centerline, 36' AGL/73' MSL.

Ship rig 5438' from DER, 1825' right of centerline, 176' AGL/176' MSL.

Rwy 15L, sign 169' from DER, 278' right of centerline, 8' AGL/19' MSL.

Rwy 15R, sign 45' from DER, 267' right of centerline, 15' AGL/16' MSL.

Rwy 22L, pole 394' from DER, on centerline, 15' AGL/31' MSL.

Ship rig 2440' from DER, 34' right of centerline, 176' AGL/176' MSL.

Cranes beginning 3675' from DER, 439' right of centerline, up to 146' AGL/146' MSL.

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

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

Cranes beginning 1600' from DER, 750' right of centerline, up to 86' AGL/102' MSL.

Wind indicator 1403' from DER, 322' right of centerline, 19' AGL/59' MSL.

Light on building and rod beginning 1677' from DER, 603' left of centerline, up to 58' AGL/73' MSL.

Trees beginning 2072' from DER, 51' right of centerline, up to 72' AGL/94' MSL.

Sign 3015' from DER, 1123' right of centerline, 73' AGL/101' MSL.

Tree 4001' from DER, 578' left of centerline, 43' AGL/119' MSL.

Buildings beginning 4363' from DER, 1082' left of centerline, 64' AGL/129' MSL.

Buildings beginning 5080' from DER, 1494' left of centerline, 71' AGL/149' MSL.

Light on bridge 1.4 NM from DER, 2566' left of centerline, 262' AGL/262' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG  28APR16  (16119)  (FAA)

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

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

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

Rwy 33L, heading as assigned by ATC; requires minimum climb of 300' per NM to 1200.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

BRIDGEPORT, CT
IGOR I. SIKORSKY MEMORIAL (BDR)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 5 20OCT11 (11293) (FAA)
TAKEOFF MINIMUMS:
Rwy 29, 600-2% 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.
Rwy 11, vehicles on road beginning 195’ from DER, 127’ left of centerline, up to 15’ AGL/28’ 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.

BRUNSWICK, ME
BRUNSWICK EXECUTIVE (BXM)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 25AUG11 (11237) (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/156’ 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.

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 300’ 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 90’ AGL/386’ 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/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, 283’ 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.

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 ‘100’ 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.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)
CLAREMONT, NH (CON’T)

Tree 2190’ from DER, 190’ right of centerline, 652’ MSL.
Trees beginning 5771’ from DER, 351’ left of centerline, 833’ MSL.
Trees beginning 5769’ from DER, 10’ right of centerline, up to 850’ MSL.
Trees beginning 5593’ 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.
Trees 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.
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, 685’ 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.
Tree 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.
Tree 4122’ from DER, 4’ right 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, 9’9’ left of centerline, up to 838’ MSL.

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

CLAREMONT, NH (CON’T)

CLAREMONT MUNI (CNH) (CON’T)

Rwy 29 (CON’T), 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.

Trees beginning 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.

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, 287’ 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 1.1NM 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 236’ 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 1111’ 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.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

DANBURY, CT
DANBURY MUNI (DXR)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 03MAY12 (12124) (FAA)
TAKE OFF MINIMUMS:
Rwy 17, NA - terrain.
Rwy 8, 600-2.
Rwy 26, 600-2½.
Rwy 35, std. w/min. climb of 470’ per NM to 1100 or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE:
Rwy 8, climb heading 084° to 1200 before turning.
Rwy 26, climb heading 264° to 1300 before turning.
Rwy 35, for climb in visual conditions, cross Danbury Muni at or above 1500 before proceeding on course. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES:
Rwy 8, vehicles on roadway 93’ from DER, 222’ right of centerline, up to 15’ AGL/480’ MSL.
Pole 308’ from DER, 39’ left of centerline, 34’ AGL/505’ MSL.
Buildings beginning 316’ from DER, 366’ left of centerline, up to 35’ AGL/499’ MSL.
Pole 691’ from DER, 150’ right of centerline, 56’ AGL/524’ MSL.
Pole 885’ from DER, 333’ left of centerline, 62’ AGL/532’ MSL.
Building 1876’ from DER, 520’ left of centerline, 61’ AGL/646’ MSL.
Pole 2017’ from DER, 201’ right of centerline, 96’ AGL/701’ MSL.
Trees and pole beginning 2372’ from DER, 28’ right of centerline, up to 105’ AGL/799’ MSL.
Building 1.5 NM from DER, 786’ right of centerline, 118’ AGL/722’ MSL.
Tower 1.5 NM from DER, 2377’ right of centerline, 275’ AGL/1015’ MSL.

Rwy 26, terrain 85’ from DER, 240’ left of centerline, 461’ MSL.
Trees beginning 1543’ from DER, 910’ left of centerline, up to 100’ AGL/959’ MSL.
Pole 1.2 NM from DER, 915’ left of centerline, 100’ AGL/709’ MSL.
Pole 2 NM from DER, 1375’ left of centerline, 82’ AGL/825’ MSL.

Rwy 35, fence 43’ from DER, 59’ left of centerline, 18’ AGL/458’ MSL.
Trees beginning 40’ from DER, left and right of centerline, up to 15’ AGL/467’ MSL.
Pole 1.3 NM from DER, 50’ right of centerline, 342’ MSL.
Trees, poles, fences, buildings, traverse ways beginning 416’ from DER, left and right of centerline, up to 72’ AGL/505’ MSL.
Building 916’ from DER, 462’ right of centerline, 95’ AGL/521’ MSL.
Trees beginning 1.3 NM from DER, 427’ right of centerline, up to 100’ AGL/839’ MSL.
Building 1.2 NM from DER, 695’ right of centerline, 122’ AGL/722’ 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’ right 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.

CONT
Rwy 13 (CON’T), Trees beginning 1.2 NM from DER, 1031’ left of centerline, up to 486’ MSL.
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, 386’ 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.
Tree 1.3 nm from DER, 58’ right of centerline, up to 550’ 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.
Trees beginning 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.
Trees, building beginning 1.5 NM from DER, 482’ 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 2063’ 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 beginning 3013’ from DER, 72’ left of centerline, up to 329’ MSL.
Tree 3102’ from DER, 524’ left 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, 923’ 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, transmission line, pole beginning 3483’ 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.

CON’T
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

DANIELSON, CT (CON’T)

DANIELSON (LZD) (CON’T)

Rwy 31 (CONT), trees beginning 4964’ from DER, 180’ left of centerline, up to 420’ MSL.

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.

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.

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, 598’ 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.
FITCHBURG, MA
FITCHBURG MUNI (FIT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 5 01SEP05 (05244) (FAA)
TAKEOFF MINIMUMS:
Rwys 2, 14, 20, NA-obstacles.
Rwy 32, std. with a min. climb of 314’ per NM to 1600, or 1500-2½ for climb in visual conditions.
DEPARTURE PROCEDURE:
Rwy 32, climb via heading 324° to 2600 before proceeding on course. For climb in visual conditions: cross Fitchburg Muni Airport at or above 1800.
TAKEOFF OBSTACLE NOTES:
Rwy 32, multiple trees beginning 144’ from DER, 260’ left of centerline up to 100’ AGL/796’ MSL. Multiple trees beginning 36’ from DER, 150’ right of centerline up to 100’ AGL/796’ 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.

FRYEBURG, ME
EASTERN SLOPES RGNL (IZG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4A 11MAR10 (10070) (FAA)
TAKEOFF MINIMUMS:
Rwys 14, std. with a min. climb of 310’ per NM to 2100, or 1600-3 for climb in visual conditions.
Rwys 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 280° 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/874’ MSL.
Vehicles beginning at 1635’ from DER, from 951’ left to 926’ right of centerline, up to 15’ AGL/740’ 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, 485’ left of centerline, up to 100’ AGL/844’ MSL.
Trees beginning 55’ from DER, from 282’ left of centerline to 898’ left of centerline, up to 100’ AGL/854’ MSL.

Trees beginning 1337’ from DER, 91’ right of centerline, up to 100’ AGL/874’ MSL.

DEPARTURE PROCEDURE:
Rwys 21, 32,
Sea Lane 14,
climbing right turn heading 005° to 3000 before proceeding on course.
Rwys 29,
Sea Lane 32,
climbing left turn heading 005° to 3000 before proceeding on course.
Rwys 11,
Sea Lane 18,
climbing left turn heading 005° to 3000 before proceeding on course.

Rwys 14, 21,
climbing runway heading to 3000 before proceeding on course.
Rwy 32,
climbing right turn heading 005° to 3000 before proceeding on course.

GREENVILLE, ME
GREENVILLE MUNI (3B1)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 21JUL94 (94202) (FAA)
TAKEOFF MINIMUMS:
Rwy 3, 1000-3.
Rwys 21, 23, 300-1.

DEPARTURE PROCEDURE:
Rwy 3, climbing left turn heading 005° to 3000 before proceeding on course.
Rwys 14, 21, climbing runway heading to 3000 before proceeding on course.
Rwy 32, climbing right turn heading 005° to 3000 before proceeding on course.

GREENSEVILLE (52B)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 24JUL14 (14205) (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 Greenville 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 Greenville 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 Greenville 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 Greenville 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.
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.

CONT
GREENVILLE, ME (CON’T)
GREENVILLE (52B) (CON’T)

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.

GROTON (NEW LONDON), CT
GROTON-NEW LONDON (GON)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 5  08FEB12  (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.

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.

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 1583’ 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.

Hartford 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.

Tree 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.
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.

10 SEP 2020 to 08 OCT 2020
HAVERHILL, NH  
DEAN MEMORIAL (5B9)  
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES  
ORIG 15MAR07 (07074) (FAA)  
TAKEOFF MINIMUMS:  
Rwy 1, std. w/min. climb of 339’ per NM to 2000, or 1800-2 for climb in visual conditions.  
Rwy 19, NA terrain  
DEPARTURE PROCEDURE:  
Rwy 1, climbing left turn heading 240° and LEB VOR/DME R-029 to 4800 before proceeding on course. Do not exceed 180 KIAS until established on LEB VOR/DME R-029. For climb in visual conditions: Cross Dean Memorial Airport southwest bound at or above 2200 via LEB VOR/DME R-036 to 5000 before proceeding on course. Do not exceed 180 KIAS until established on LEB VOR/DME R-036.  
TAKEOFF OBSTACLE NOTES:  
Rwy 1, multiple buildings beginning 180’ from DER, 74’ left of centerline, up to 25’ AGL/571’ MSL.  
Building 300’ from DER, 100’ right of centerline, 35’ AGL/584’ MSL.  
Vehicles at DER, beginning 500’ right of centerline, to 500’ left of centerline 15’ AGL/596’ MSL.  
Multiple trees beginning 1450’ from DER left and right of centerline, up to 100’ AGL/599’ MSL.  
Multiple trees beginning 1.3 NM from DER left and right of centerline, up to 100’ AGL/819’ MSL.  
Multiple trees and towers beginning 1.7 NM from DER left and right of centerline, up to 200’ AGL/919’ MSL.  

HIGHGATE, VT  
FRANKLIN COUNTY STATE (FSO)  
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES  
AMDT 1 30JUN11 (11181) (FAA)  
TAKEOFF MINIMUMS:  
Rwy 19, 500-2¾ 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, 300-1½ 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.  

HOUULTON, ME  
HOUULTON INTL (HUL)  
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES  
AMDT 2 25AUG11 (11237) (FAA)  
TAKEOFF MINIMUMS:  
Rwy 1, 300-1½ or std. w/min. climb of 429’ per NM to 900.  
Rwy 5, 300-1½ or std. with min. climb of 340’per NM to 900.  
Rwy 19, 500-3.  
Rwy 23, 400-1½ or std. w/min. climb of 389’ per NM to 1000.  
DEPARTURE PROCEDURE:  
Rwy 23, Climb heading 229° to 1000 before turning left.  
TAKEOFF OBSTACLE NOTES:  
Rwy 1, trees beginning 109’ from DER, 170’ left of centerline, up to 100’ AGL/739’ MSL.  
Tree 141’ from DER, 241’ right of centerline, 100’ AGL/579’ MSL.  
Vehicle on roadway 520’ from DER,7 right of centerline, 15’ AGL/494’ MSL.  
Rwy 5, trees beginning 144’ from DER, 155’ left of centerline, up to 100’ AGL/599’ MSL.  
Trees beginning 432’ from DER, 557’ right of centerline, up to 100’ AGL/779’ MSL.  
Rwy 19, trees beginning 2331’ from DER, 810’ left of centerline, up to 100’ AGL/939’ MSL.  
Trees beginning 2006’ from DER, 411’ right of centerline, up to 100’ AGL/949’ MSL.  
Rwy 23, trees beginning 427’ from DER, 411’ left of centerline, up to 100’ AGL/829’ MSL.  
Trees beginning 52’ from DER, 309’ right of centerline, up to 100’ AGL/619’ MSL.
HYANNIS, MA
BARNSTABLE MUNI-BOARDMAN/POLANDO FIELD (HYA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3A 25SEP08 (08269) (FAA)
TAKEOFF MINIMUMS:
Rwy 33, 300-1 or std. with a 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 FIELD (59B)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 15AUG19 (19227) (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 Field 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.
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 485’ 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 AIRPORT-SILVER RANCH (AFN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 29MAY14 (14149) (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 airport-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.

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

KEENE, NH
DILLANT-HOPKINS (EEN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 5 09OCT97 (97282) (FAA)
TAKEOFF MINIMUMS:
Rwy 2, 1200-2.
Rwy 14, 2200-2 or std. with a min. climb of 450' per NM to 2500.
Rwy 20, 1000-2 or std. with a min. climb of 320' per NM to 1700.
Rwy 32, 1600-2.
DEPARTURE PROCEDURE:
Rwy 2, climb runway heading to 2100, then climbing left turn to assigned altitude direct EEN VORTAC before proceeding on course.
Rwy 14, climb runway heading to 2500, then climbing right turn to assigned altitude direct EEN VORTAC before proceeding on course.
Rwy 20, climb direct EEN VORTAC until passing 3000, if not at 3000 or above at EEN VORTAC climb in EEN holding pattern; (NE, right turns, 215° inbound) before proceeding on course.
Rwy 32, climbing right turn heading 350° to 2100, then climbing left turn to assigned altitude direct EEN VORTAC before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 2, 81' AGL trees 400' from DER and 500' right of centerline.
Rwy 32, 89' AGL trees 800' from DER and 600' right of centerline.

LACONIA, NH
LACONIA MUNI (LCI)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 07MAY09 (09127) (FAA)
TAKEOFF MINIMUMS:
Rwy 8, 600-1¾ 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.
Rwy 26, trees and terrain beginning 123' from DER, 42' left of centerline, up to 84' AGL/743' 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 89' AGL/198' MSL.
Tree 1660' from DER, 849' right of centerline, 65' AGL/225' MSL.
Trees beginning 1668' 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.
Trees beginning 4417' from DER, 176' left of centerline, 94' AGL/247' MSL.
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.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

LAWRENCE, MA (CON’T)

LAWRENCE MUNI (LWM) (CON’T)

Rwy 5 (CON’T), 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. Tree, building, pole beginning 150’ from DER, 9’ left of centerline, up to 57’ AGL/184’ 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 2  15JAN09  (09015)  (FAA)

TAKEOFF MINIMUMS:

Rwy 7, 300-1 w/ min. climb of 380’ per NM to 3100, or 2000-3 for climb in visual conditions.

Rwy 18, std. w/ min. climb of 380’ per NM to 3800, or 2000-3 for climb in visual conditions.

Rwy 25, std. w/ min. climb of 380’ per NM to 3800, or 2000-3 for climb in visual conditions.

Rwy 36, std. w/ min. climb of 380’ per NM to 3800, or 2000-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 7, climb heading 075° to 1900 before proceeding on course.

Rwy 18, climb heading 184° to 3100 before proceeding on course.

Rwy 25, climb heading 255° to 3100 before proceeding on course.

Rwy 36, climb heading 004° to 1800 before proceeding on course.

Rwys 7, 10, 25, 36, - for climb in visual conditions: cross Lebanon Muni airport at or above 2500 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 7, numerous trees beginning 104’ from DER, 255’ right of centerline up to 112’ AGL/752’ MSL. Pole 505’ from DER, 391’ right of centerline, 72’ AGL/672’ MSL. Bush 426’ from DER, 259’ right of centerline, 9’ AGL/589’ MSL. Multiple trees beginning 13’ from DER, 209’ left of centerline, up to 100’ AGL/1100’ MSL.

Rwy 18, numerous trees, and obstruction light poles beginning 288’ from DER, 107’ right of centerline, up to 100’ AGL/784’ MSL. Numerous trees and obstruction light poles beginning 433’ from DER, 206’ left of centerline, up to 82’ AGL/962’ MSL. Bush 216’ from DER, 471’ right of centerline, 16’ AGL/619’ MSL.

Rwy 25, multiple trees beginning 340’ from DER, 400’ left of centerline, up to 91’ AGL/871’ MSL. Tree 382’ from departure end of runway, 502’ right of centerline, 91’ AGL/581’ MSL.

Rwy 36, multiple trees beginning 243’ from DER, 355’ left of centerline, up to 81’ AGL/581’ MSL. Pole 155’ from DER, 505’ left of centerline, 30’ AGL/590’ MSL. Tree 357’ from DER, 511’ right of centerline, 83’ AGL/583’ 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. Tower, beginning 7440’ from DER, 2310’ left of centerline, up to 191’ AGL/869’ MSL.

Rwy 35, tree beginning 123’ from DER, 296’ left of centerline, up to 80’ AGL/299’ 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 2519’ from DER, 554’ left of centerline, up to 80’ AGL/1395’ MSL.
Terrain beginning 2919’ from DER, 554’ left of centerline, 1322’ MSL.
Rising terrain beginning 9.2 NM from DER, 1.9 NM left of centerline, up to 1773’ 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.
Trees beginning 105’ from DER, left and right of centerline, up to 1699’ 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.

MANCHESTER, NH
MANCHESTER (MHT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 10B 13SEP19 (18256) (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 68’ 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, 600’ 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.
Trees beginning 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.

CON’T
MANCHESTER, NH (CON’T)  
MANCHESTER (MHT) (CON’T)

Rwy 17 (CON’T), vehicles on roadway beginning 764’ from DER, 392’ left of centerline, up to 304’ 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 1905’ from DER, 11’ right of 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 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.

Poles beginning 3216’ from DER, 37’ left of centerline, up to 51’ AGL/379’ MSL.

Tree, pole, building beginning 3401’ from DER, 17’ left of centerline, up to 52’ AGL/383’ MSL.

Trees 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, 397’ MSL.

Trees, pole 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’ right of centerline, up to 70’ AGL/405’ MSL.

Trees, pole, 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’ right of centerline, up to 81’ AGL/426’ MSL.

Tree, pole beginning 4830’ from DER, 26’ right of centerline, up to 419’ MSL.

Trees, 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.

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 5276’ 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’ right of centerline, up to 463’ MSL.

Trees beginning 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 4785’ 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.

CON’T
MANCHESTER, NH (CON’T)
MANCHESTER (MHT) (CON’T)

Rwy 35, tree 612’ from DER, 613’ left of centerline, 237’ MSL.
Tree 712’ from DER, 493’ left of centerline, 239’ MSL.
Tree 7122’ 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, 981’ right of centerline, 96’ AGL/287’ MSL.
Tree 1989’ from DER, 984’ 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.
Tree, poles beginning 2505’ from DER, 558’ left of centerline, up to 39’ AGL/303’ MSL.

MANCHESTER, NH (CON’T)

NE-1 20254

TREE T 20254

MANSFIELD, MA
MANSFIELD MUNI (1B9)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2A  27JUN13  (13178)  (FAA)
TAKEOFF MINIMUMS:

Rwy 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 668’ 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.

MARSHFIELD, MA
MARSHFIELD MUNI-GEORGE HARLOW FIELD (GHG)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1  13NOV14  (14317)  (FAA)
TAKEOFF MINIMUMS:

Rwy 24, 200-1¼ or std. w/min. climb of 205’ per NM to 300, or alternatively, with standard 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 beginning 1001’ from DER, 14’ left 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 21’ from DER, 84’ left of centerline, up to 74’ AGL/74’ MSL.
Trees beginning 471’ 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.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

MERIDEN, CT
MARKEN 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.
Rwy 36, 3441' 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, 233' 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 1685' from DER, left and right of centerline, up to 100' AGL/519' MSL.
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.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

MONTAGUE, MA
TURNERS FALLS (OB5)
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 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 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.
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.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

NANTUCKET, MA
NANTUCKET MEMORIAL (ACK)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3  08OCT98  (98281)  (FAA)
TAKEOFF MINIMUMS:
Rwy 12, 700-1 or std. with a 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 FIELD (ASH)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4  27JUN13  (13178)  (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 983' from DER, 580' 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 96' AGL/295' 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.
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 beginning 1709' from DER, 497' left of centerline, up to 37' AGL/112' MSL.
Trees beginning 1982' from DER, left and right of centerline, up to 27' AGL/158' 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.

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

L30
NEW BEDFORD, MA (CON’T)

NEW BEDFORD RGNL (EWB) (CON’T)

- **Rwy 14 (CON’T)**, 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 688’ from DER, 10’ left of centerline, up to 45’ AGL/135’ MSL. Buildings 930’ from DER, 677’ left of centerline, up to 31’ AGL/69’ 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.

NEW HAVEN, CT

TWEED-NEW HAVEN (HVN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 12JAN12 (12012) (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.

NEWPORT, RI

NEWPORT STATE (UUU)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3A 20DEC07 (07354) (FAA)

TAKEOFF MINIMUMS:

- **Rwy 4**, 300-2½ 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.

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

NEWPORT, NH
PARLIN FIELD (2B3)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 26MAY16 (16147) (FAA)

TAKEOFF MINIMUMS:
- Rw 12, 30, NA-Environmental.
- Rw 18, 600-2½ w/min. climb of 365’ per NM to 3400 or 2300-3 for climb in visual conditions.
- Rw 36, 700-1½ w/min. climb of 487’ per NM to 3700 or 2300-3 for climb in visual conditions. Procedure NA at night.

DEPARTURE PROCEDURE:
- Rw 18, Climb heading 182° to 3200 before proceeding on course.
- Rw 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 field at the DER or above 2900 before proceeding on course.

TAKEOFF-obstacle notes:
- Rw 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/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/995’ 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.
- Trees, buildings, and vehicles 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.
- Rw 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, 264’ left of centerline, up to 15’ 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/997’ 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’ MSL/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 1800’ from DER, 352’ right 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 1.0 NM from DER, on rising hillside, 992’ left of centerline, up to 100’ AGL/1162’ MSL.
- Trees continuing 1.1 NM from DER, on rising hillside, 1158’ left of centerline, up to 100’ AGL/1202’ MSL.
- Trees continuing 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 1.3 NM from DER, on rising hillside, 1486’ left of centerline, up to 100’ AGL/1340’ MSL.
- Trees continuing 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.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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.
Ridgeline beginning 3.3 NM from DER, 3031' left of centerline, up to 1515' MSL.

NORRIDGEWOCK, ME
CENTRAL MAINE AIRPORT OF NORRIDGEWOCK (OWK)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4  29MAY14  (14149)  (FAA)
TAKEOFF MINIMUMS:
Rwy 3, 300-1½ or std. w/min. climb of 210' per NM to 500, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1300' prior to DER.
Rwy 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, climbing right turn to 1900 direct AUG VOR/DME before proceeding on course.
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.
Ridgeline beginning 6.3 NM from DER, 1500' right of centerline, up to 1515' MSL.

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

NORTH ADAMS, MA
HARRIMAN-AND-WEST (AQW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 12NOV15 (15316) (FAA)

TAKEOFF MINIMUMS:

Rwy 11, 1100-2½ 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 buildings continuing from 149’ from DER, left and right of centerline, up to 85’ AGL/730’ MSL.

Trees 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, 708’ right and across centerline, up to 92’ AGL/781’ MSL.

Multiple trees and building on rising hillside continuing from 1459’ from DER, 843’ right and across centerline, up to 64’ AGL/793’ MSL.

Trees on rising hillside continuing from 1625’ from DER, 880’ right and across centerline, up to 79’ AGL/827’ MSL.

Trees on rising hillside continuing from 2010’ from DER, 1009’ right and across centerline, up to 107’ AGL/856’ MSL.

Trees on rising hillside continuing from 2510’ from DER, 1169’ right and crossing 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 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 continuing from 2.4 NM from DER, left and right of centerline, up to 51’ AGL/1479’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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 291’ 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 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 65’ 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 MEMORIAL (OWD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 7 29MAY14 (14149) (FAA)
TAKEOFF MINIMUMS:
Rwy 10, 400-1½ or std w/min. climb of 310’ per NM to 400.
Rwy 17, 300-2¼ or std w/min. climb of 220’ per NM to 500, or alternatively, with std. takeoff minimums and a normal 200’ per NM climb gradient, takeoff must occur no later than 1700’ prior to DER.
Rwy 28, 400-2 or std w/min. climb of 385’ per NM to 500.
Rwy 35, 300-1¾ or std w/min. climb of 230’ per NM to 1900, or alternatively, with std. takeoff minimums and a normal 200’ per NM climb gradient, takeoff must occur no later than 1700’ prior to DER.
DEPARTURE PROCEDURE:
Rwy 10, climb heading 104° to 1100 before turning north.
Rwy 28, climb heading 284° to 700 before turning north.
Rwy 35, turn left heading 315° to 1900 before turning east.
TAKEOFF OBSTACLE NOTES:
Rwy 10, trees 225’ from DER, 341’ left of centerline, 53’ AGL/97’ MSL.
Trees 1641’ from DER, 33’ left of centerline, 73’ AGL/118’ MSL.
Trees 75’ from DER, 302’ right of centerline, 15’ AGL/63’ MSL.
Trees 4561’ from DER, 1005’ right of centerline, 87’ AGL/215’ MSL.
Trees 4244’ from DER, 1228’ right of centerline, 98’ AGL/211’ MSL.
Trees 1.2 NM from DER, 238’ right of centerline, 89’ AGL/242’ MSL.
Rwy 17, trees 42’ from DER, 507’ left of centerline, 33’ AGL/76’ MSL.
Trees 2777’ from DER, 273’ right of centerline, 78’ AGL/126’ MSL.
Trees 2742’ from DER, 291’ left of centerline, 73’ AGL/121’ MSL.
Trees 2192’ from DER, 444’ left of centerline, 64’ AGL/106’ MSL.
Trees 1.8 NM from DER, 3332’ right of centerline, 100’ AGL/350’ MSL.
Trees 2397’ from DER, 667’ right of centerline, 76’ AGL/124’ MSL.
Trees 2111’ from DER, 616’ right of centerline, 68’ AGL/114’ MSL.
Rwy 28, trees 932’ from DER, 463’ left of centerline, 74’ AGL/131’ MSL.
Trees 2352’ from DER, 157’ left of centerline, 75’ AGL/172’ MSL.
Trees 2868’ from DER, 41’ left of centerline, 81’ AGL/188’ MSL.
Stack 6004’ from DER, 1246’ left of centerline, 103’ AGL/224’ MSL.
CONT
NORWOOD, MA (CON’T)
NORWOOD MEMORIAL (OWD) (CON’T)

Rwy 28 (CON’T), stack 5559’ from DER, 651’ left of centerline, 117’ AGL/234’ MSL.
Spire 1.6 NM from DER, 311’ left of centerline, 98’ AGL/335’ MSL.
Tree 610’ from DER, 544’ right of centerline, 71’ AGL/119’ MSL.
Tower 4465’ from DER, 238’ right of centerline, 157’ AGL/262’ MSL.
Spire 6044’ from DER, 1320’ right of centerline, 143’ AGL/284’ MSL.
Tower 1.7 NM from DER, 723’ right of centerline, 132’ AGL/386’ MSL.
Trees 1.9’ from DER, 722’ right of centerline, 100’ AGL/339’ MSL.

Rwy 35, trees 647’ from DER, 625’ left of centerline, 72’ AGL/120’ MSL.

Bat 2791’ from DER, 478’ left of centerline, 76’ AGL/124’ MSL.
Tree 3123’ from DER, 598’ left of centerline, 83’ AGL/133’ MSL.
Pole 5856’ from DER, 936’ right of centerline, 155’ AGL/216’ MSL.
Pole 5686’ from DER, 769’ right of centerline, 150’ AGL/211’ MSL.
Trees 1557’ from DER, 787’ right of centerline, 80’ AGL/125’ MSL.

OLD TOWN, ME
DEWITT FIELD OLD TOWN MUNI (OLD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 27SEP07 (07270) (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.

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 1000-2½ 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 1200 or 1300-2½ for climb in visual conditions.
Rwy 19, 300-1½ or std. w/min. climb of 240’ per NM to 900.
Rwy 32, 400-2½ w/min. climb of 265’ per NM to 1700 or std. w/min. climb of 340’ per NM to 1700 or 1300-2½ 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/818’ 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.
OXFORD, CT
WATERBURY-OXFORD (OXC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 6 03JAN19 (19003) (FAA)

TAKEOFF MINIMUMS:
- **Rwy 36**, 300-1½ 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.
- 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 866' 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.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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/849' 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/1079' 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.
Windsock abeam DER, 233' right of centerline, 16' AGL/426' 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, 505' 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.
PITTSFIELD, MA
PITTSFIELD MUNI (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 (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 (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.
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, 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.

10 SEP 2020 to 08 OCT 2020

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)
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/269’ 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’ right 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.
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, 56’ right 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.
Poles, 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, 168’ 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.
Poles, 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.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

PORTLAND, ME

PORTLAND INTL JETPORT (PWM)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 7 10DEC15 (15344) (FAA)

TAKEOFF MINIMUMS:

Rwy 11, 300-1 1/4 or std. w/min. climb of 272' per NM to 400.
Rwy 36, 400-2 1/2 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/89' MSL.
Tree 650 from DER, 551' left of centerline, 25' AGL/67' MSL.

DEPARTURE PROCEDURE:

Rwy 16, climb heading 165° to 600 before turning left.

VCOA:

Rwys 1, 19, 18, 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 10' from DER, 372' left of centerline, 535' MSL.
Terrain 172' from DER, 473' left of centerline, 545' MSL.
Terrain 406' from DER, 513' right of centerline, 549' MSL.
Terrain 657' from DER, 523' left of centerline, 564' MSL.

Vehicles on road, NAVAID beginning 948' from DER, on centerline, up to 570' MSL.

PRESQU' ISLE, ME

PRESQU' ISLE INTL (PQI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 20JUN19 (19171) (FAA)

TAKEOFF MINIMUMS:

Rwy 1, 300-1 w/min. climb of 245' per NM to 1200, or std. w/min. climb of 460' per NM to 800, or 1100-3 for VCOA.
Rwy 10, 300-1 3/4 or std. w/min. climb of 264' per NM to 900.
Rwy 19, std. w/min. climb of 273' per NM to 1700 or 1100-3 for VCOA.
Rwy 28, 300-1 1/4 w/min. climb of 216' per NM to 2100, or std. w/min. climb of 318' per NM to 800, or 1100-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 10, climb heading 093° to 1600 before proceeding on course.

VCOA:

Rwys 1, 19, 18, 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 10' from DER, 372' left of centerline, 535' MSL.
Terrain 172' from DER, 473' left of centerline, 545' MSL.
Terrain 406' from DER, 513' right of centerline, 549' MSL.
Terrain 657' from DER, 523' left of centerline, 564' MSL.

Vehicles on road, NAVAID beginning 948' from DER, on centerline, up to 570' MSL.

PRESQU' ISLE, ME

PRESQU' ISLE INTL (PQI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 20JUN19 (19171) (FAA)

TAKEOFF MINIMUMS:

Rwy 1, 300-1 w/min. climb of 245' per NM to 1200, or std. w/min. climb of 460' per NM to 800, or 1100-3 for VCOA.
Rwy 10, 300-1 3/4 or std. w/min. climb of 264' per NM to 900.
Rwy 19, std. w/min. climb of 273' per NM to 1700 or 1100-3 for VCOA.
Rwy 28, 300-1 1/4 w/min. climb of 216' per NM to 2100, or std. w/min. climb of 318' per NM to 800, or 1100-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 10, climb heading 093° to 1600 before proceeding on course.

VCOA:

Rwys 1, 19, 18, 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 10' from DER, 372' left of centerline, 535' MSL.
Terrain 172' from DER, 473' left of centerline, 545' MSL.
Terrain 406' from DER, 513' right of centerline, 549' MSL.
Terrain 657' from DER, 523' left of centerline, 564' MSL.

Vehicles on road, NAVAID beginning 948' from DER, on centerline, up to 570' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

PRESQUE ISLE, ME (CON’T)

PRESQUE ISLE INTL (PQI) (CON’T)

Rwy 1 (CON’T), tree, pole beginning 2723’ from DER, 908’ right of centerline, up to 41’ AGL/678’ MSL.
Tree, pole beginning 2791’ from DER, 13’ right of centerline, up to 51’ AGL/694’ MSL.
Pole, terrain, tree, building beginning 3663’ from DER, 687’ right of centerline, up to 29’ AGL/713’ MSL.
Tree 1.1 NM from DER, 1517’ right of centerline, 61’ AGL/734’ MSL.
Tree 1.1 NM from DER, 1609’ right of centerline, 61’ AGL/738’ MSL.
Tree 1.2 NM from DER, 1850’ right of centerline, 70’ AGL/749’ MSL.
Tree 2.5 NM from DER, 3528’ left of centerline, 100’ AGL/960’ MSL.

Rwy 10, tree, vehicles on road beginning 35’ from DER, 423’ right of centerline, up to 38’ AGL/508’ MSL.
Pole 447’ from DER, 610’ right of centerline, 43’ AGL/519’ MSL.
Tree 519’ from DER, 517’ right of centerline, 58’ AGL/535’ MSL.
Tree 2610’ from DER, 132’ left of centerline, 73’ AGL/544’ MSL.
Tree 1.1 NM from DER, 241’ left of centerline, 61’ AGL/734’ MSL.
Tree 1.2 NM from DER, 1609’ right of centerline, 67’ AGL/760’ MSL.
Tree 1.3 NM from DER, 1657’ right of centerline, 76’ AGL/764’ 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’ right 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.

PROVIDENCE, RI

THEODORE FRANCIS GREEN STATE (PVD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 13 07DEC17 (17341) (FAA)

TAKEOFF MINIMUMS:

Rwys 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 PROCEDURES:

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 Theodore Francis Green State Airport 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.
Treess beginning 1215’ from DER, 497’ left of centerline, up to 107’ MSL.
Tree 1303’ from DER, 497’ left of centerline, 88’ MSL.
Trees beginning 1464’ from DER, 733’ right of centerline, up to 105’ MSL.
Treess beginning 2080’ from DER, 454’ left of centerline, up to 115’ MSL.
Treess 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 92’ from DER, 136’ right of centerline, up to 71’ MSL.
Tree 406’ from DER, 579’ left of centerline, 49’ MSL.
Tree 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.

CONT
PROVIDENCE, RI (CON’T)
THEODORE FRANCIS GREEN STATE (PVD) (CONT)

Rwy 16 (CONT), tree 201’ 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 2583’ 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 3991’ 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 59’ 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, 286’ 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.
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 beginning 340’ from DER, 549’ left of centerline, 1848’ MSL.
Trees beginning 372’ from DER, 468’ left of centerline, up to 1850’ MSL.
Trees beginning 622’ 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.

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 2, 300-1¾ 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 326’ from DER, 1226’ left of centerline, up to 72’ AGL/401’ MSL.
Trees 456’ 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.

SOUTHBRIDGE, MA
SOUTHBRIDGE MUNI (3B0)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 11MAR10 (10070) (FAA)
TAKEOFF MINIMUMS:
Rwy 2, 300-1½ or std. w/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.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

SPRINGFIELD, VT
HARTNESS STATE (SPRINGFIELD) (VSF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3A 10SEP20 (20254) (FAA)
TAKEOFF MINIMUMS:
Rwys 11, 23, 29, 3000-3 for VCOA
VCOA:
All runways, 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:

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

Rwy 5, tree, transmission line, pole beginning 3' from DER, 295' left of centerline, up to 688' MSL.
Trees, 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.

Tree 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, antennas, 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.
Trees beginning 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 3381’ 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.
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.

CONT
SPRINGFIELD, VT (CON’T)
HARTNESS STATE (SPRINGFIELD) (VSF) (CON’T)

Rwy 11 (CON’T), 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.
Trees, beginning 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, 684’ 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, 3769’ 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 978’ 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.
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.
Trees 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.

DIVERSE VECTOR AREA (RADAR VECTORS)

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

SPRINGFIELD, VT (CON’T)
HARTNESS STATE (SPRINGFIELD) (VSF) (CON’T)

Rwy 29 (CONT), 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, 789’ MSL.

Tree 3331’ from DER, 890’ right of centerline, 787’ 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 789’ MSL.

Trees beginning 3898’ from DER, 148’ right of centerline, up to 797’ MSL.

Trees, poles, transmission line, buildings beginning 3941’ from DER, 71’ right of centerline, up to 806’ MSL.

Transmission line, pole, tree beginning 4728’ from DER, 0’ left of centerline, up to 72’ AGL/834’ MSL.

Transmission line, pole, beginning 4739’ from DER, 73’ left of centerline, up to 837’ MSL.

Trees, 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.

STOW, MA
MINUTE MAN AIRFIELD (6B6)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 23SEP10 (10266) (FAA)

TAKEOFF MINIMUMS:
Rwy 3, 400-2½ or std. w/ min. climb of 420’ per NM to 700.
Rwys 12, 30, NA-Environmental.
Rwy 21, 400-2½ 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.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)
TAUNTON, MA
TAUNTON MUNI-KING FIELD (TAN)
TAKEOFF MINIMUMS AND (ObSTACLE) DEPARTURE PROCEDURES
AMDT 2 14FEB08 (08045) (FAA)
TAKEOFF MINIMUMS:
Rwys 4, 22, NA-Turf runway.
Rwy 12, 200-1½ or standard with minimum 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 OBSTACLE NOTES:
Rwy 5, Tree 615’ from DER, 572’ left of centerline, 66’ AGL/358’ MSL.
Rwy 14, Tree 215’ from DER, 292’ right of centerline, 41’ AGL/333’ MSL.
Trees beginning 238’ from DER, 296’ left of centerline, 42’ AGL/333’ MSL.
Trees beginning 249’ from DER, 509’ left of centerline, 77’ AGL/371’ MSL.
Rwy 32, Trees beginning 615’ from DER, 572’ left of centerline, up to 63’ AGL/351’ MSL.
Rwy 32, Tree 590’ from DER, 234’ right of centerline, 67’ AGL/334’ MSL.
Trees beginning 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.

WEST DOVER, VT
DEERFIELD VALLEY RGNL (4V8)
TAKEOFF MINIMUMS AND (ObSTACLE) DEPARTURE PROCEDURES
AMDT 2 30JUN11 (11181) (FAA)
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.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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 337' from DER, 19' 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.
Rwy 32, 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 69' 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 12 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' right 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. 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. CONT

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

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

WESTFIELD/SPRINGFIELD, MA (CON’T)
WESTFIELD-BARNES RGNL (BAF) (CON’T)

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

NE-1 20254
WESTFIELD/SPRINGFIELD, MA (CON’T)

Rwy 15 (CON’T), trees beginning 408’ from DER, 581’ left of centerline, up to 428’ MSL.
Trees beginning 433’ from DER, 684’ left of centerline, up to 439’ MSL.
Trees beginning 451’ 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.

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’ right of centerline, 80’ AGL/340’ MSL.
Poles and buildings 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.
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.
Trees beginning 1.5 NM from DER, 2439’ left of centerline, up to 307’ AGL/545’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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 300-1/2 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.
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.
Poles beginning 686’ from DER, 1575’ right of centerline, 6’ AGL/1128’ MSL.
Rwy 28, train beginning 7’ from DER, 469’ right of centerline, up to 23’ AGL/1058’ 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.

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 540’ 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 28’ 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.

CONT
WILLIMANTIC, CT (CON’T)
WINDHAM (IJD) (CON’T)

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

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, 502’ left of centerline, 93’ AGL/312’ 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/284’ 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/326’ 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 4  20JUN19  (19171)  (FAA)**

**TAKEOFF MINIMUMS:**

Rwy 19, NA - environmental.

Rwy 33, std. w/min. climb of 340’ per NM to 1000 or 1200-3 for VCOA.

**DEPARTURE PROCEDURE:**

Rwy 1, climb heading 013° to 900 before turning left.

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 1, lighting 10’ from DER, 40’ right of centerline, 2’ AGL/171’ MSL. Tree 670’ from DER, 624’ left of centerline, 234’ MSL. Trees beginning 852’ from DER, 399’ left of centerline, up to 54’ AGL/237’ MSL. Trees beginning 995’ from DER, 393’ right of centerline, up to 239’ MSL. Trees beginning 1154’ from DER, 312’ left of centerline, up to 244’ MSL. Trees beginning 1378’ from DER, 182’ left of centerline, up to 249’ MSL. Pole and tree beginning 1388’ from DER, 382’ right of centerline, up to 31’ AGL/219’ MSL. Trees beginning 1735’ from DER, 35’ left of centerline, up to 257’ MSL. Trees beginning 1844’ from DER, 47’ right of centerline, up to 246’ MSL. Trees beginning 2080’ from DER, 81’ left of centerline, up to 266’ MSL. Trees beginning 2142’ from DER, 312’ left of centerline, up to 244’ MSL. Trees beginning 2211’ from DER, 20’ right of centerline, up to 278’ MSL. Trees beginning 2543’ from DER, 41’ left of centerline, up to 268’ MSL. 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. 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, 988’ 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.

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

WINDSOR LOCKS, CT (CON’T)

BRADLEY INTL (BDL) (CON’T)

Rwy 33 (CON’T), 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 2158’ 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

AMDT 2  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.

WORCESTER, MA

WORCESTER RGNL (ORH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8  11MAR10  (10070)  (FAA)

TAKEOFF MINIMUMS:

Rwy 29, 300-1 or std. with a min. climb of 323’ per NM to 1300.
Rwy 33, 700-3 or std. with a 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.
GARDNER FOUR ARRIVAL

ARRIVAL ROUTE DESCRIPTION

ALBANY TRANSITION (ALB.GDM4): From over ALB VORTAC on ALB R-111 to WIKID INT, then on GDM R-294 to GDM VOR/DME Thence. . . .

. . . From over GDM VOR/DME on GDM R-111 to BRONC INT, then to LOBBY INT, then to REVER INT, then on BOS R-030 to BOS VOR/DME. Expect radar vectors to final approach course prior to BOS VOR/DME.

NOTE: RADAR required.

NOTE: Chart not to scale.
GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

JFUND TWO ARRIVAL (RNAV) Transition Routes

NOTE: Not to scale.

CONTINUED ON FOLLOWING PAGE

ONDEC TRANSITION (ONDEC.JFUND2):

PONCT TRANSITION (PONCT.JFUND2)

WHATE TRANSITION (WHATE.JFUND2):

NOTE: D-ATIS
135.0
BOSTON APP CON
120.6 263.1

JFUND TWO ARRIVAL

NOTE: NE-1, 10 SEP 2020 to 08 OCT 2020
LANDING RUNWAY 4R/L: From JFUND on track 117° to cross AUTUM between 11000 and 12000 and at 270K, then on track 121° to cross WINTA between 8000 and 10000 and at 250K, then on track 120° to HRRIS, then on track 112° to cross SPYSU at 7000 and at 220K, then on track 170° to GRIFI, then on track 213° to cross GGABE at 6000 and at 220K, then on track 213° to cross JOBEE at 6000 and at 210K, then on track 213°. Expect RADAR vectors to final approach course.

LANDING RUNWAY 15R: From JFUND on track 090° to cross BADCA at or above 9000 and at 250K, then on track 090° to cross WACHU at 7000 and at 210K, then on track 121° to SSAAM, then on track 148° to AADMS, then on track 148°. Expect RADAR vectors to final approach course.

LANDING Rwy 22R/L: From JFUND on track 117° to cross AUTUM between 11000 and 12000 and at 270K, then on track 121° to cross WINTA between 8000 and 10000 and at 250K, then on track 120° to HRRIS, then on track 079° to cross ISLAY at 6000 and at 220K, then on track 035° to cross LWLND at 6000 and at 210K, then on track 035°. Expect RADAR vectors to final approach course.

LANDING RUNWAY 27: From JFUND on track 117° to cross AUTUM between 11000 and 12000 and at 270K, then on track 121° to cross WINTA between 8000 and 10000 and at 250K, then on track 120° to HRRIS, then on track 112° to cross SPYSU at 7000 and at 220K, then on track 115° to REVER, then on track 093° to cross SEHAG at 6000 and at 210K, then on track 093°. Expect RADAR vectors to final approach course.

LANDING RUNWAYS 32, 33L: From JFUND on track 117° to cross AUTUM between 11000 and 12000 and at 270K, then on track 121° to cross WINTA between 8000 and 10000 and at 250K, then on track 120° to HRRIS, then on track 112° to cross SPYSU at 7000 and at 220K, then on track 144° to cross BRODI at or below 6000, then on track 144° to cross BECHH at 5000 and at 220K, then on track 150° to cross SCITU at 5000 and at 210K, then on track 150°. Expect RADAR vectors to final approach course.
NOTE: For Turbojet aircraft only.
NOTE: DME and RADAR required.
NOTE: Landing Rwy 4L/R - Expect to cross PVD VOR/DME at 11000 and 250K.
All other Rwys: Expect to cross KRANN at 11000 and 270K.
NOTE:  Chart not to scale.

NOTE:  RADAR required.
NOTE:  RNAV 1.
NOTE:  DME/DME/IRU or GPS required.
NOTE:  Turbojet aircraft only.
NOTE:  FEXXX, MERIT, PROVI, RIFLE transitions assigned by ATC only.

(Continued on next page)
OOSHN FIVE ARRIVAL (RNAV) Arrival Routes

**ARRIVAL ROUTE DESCRIPTION**

From EURRO on track 260° to cross OOSHN between 9000 and 14000 and at 250K.

**Landing Rwy 4L/R**: From OOSHN on track 266° to cross TTERI at or above 9000 and at 250K, then on track 268° to cross FLUTI at or above 9000, then on track 215° to cross GRIF1, then on track 213° to cross GGABE at 6000 and at 220K, then on track 213° to cross JOBEE at 6000 and at 210K, then on track 213°. Expect RADAR vectors to final approach course.

**Landing Rwy 15R**: From OOSHN on track 282° to cross GRGIO at or below 9000, then on track 269° to cross BRGIT at 7000, then on track 273° to cross HNOVR at 5000 and at 220K, then on track 271° to cross RDHOK at 5000 and at 210K, then on track 329° to cross TKMAN at 5000 and at 210K, then on track 329°. Expect RADAR vectors to final approach course.

**Landing Rwy 22L/R**: From OOSHN on track 282° to cross GRGIO at or below 9000, then on track 269° to cross BRGIT at 7000, then on track 323° to cross ADDDA at 6000 and at 220K, then on track 305° to cross LEEZI at 6000 and at 210K, then on track 305°. Expect RADAR vectors to final approach course.

**Landing Rwy 27**: From OOSHN on track 217° to cross AYBEE at 6000 and at 210K, then on track 272°. Expect RADAR vectors to final approach course.

**Landing Rwy 32, 33L**: From OOSHN on track 266° to cross TTERI at or above 9000 at at 250K, then on track 268° to WAATR, then on track 213° to PLGRM, then on track 181° to cross BECHH at 5000 and at 220K, then on track 150° to cross SCITU at 5000 and at 210K, then on track 150°. Expect RADAR vectors to final approach course.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.
NOTE: RUIZE transition assigned by ATC only.

(CONTINUED ON FOLLOWING PAGE)
ROBUC THREE ARRIVAL (RNAV) Arrival Routes

NOTE: Chart not to scale.

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.
NOTE: RUIZE transition assigned by ATC only.

ROBUC THREE ARRIVAL (RNAV) Arrival Routes

NOTE: Chart not to scale.

NOTE: Chart not to scale.

ROBUC THREE ARRIVAL (RNAV) Arrival Routes
ARRIVAL ROUTE DESCRIPTION

From ROBUC on track 084° to cross PROVI at or above 11000, then on track 075° to JOODY. Then on assigned runway transition.

**LANDING RWY 4L:** From JOODY on track 035° to cross SOFEE between 9000 and 10000 and at 220K, then on track 035° to cross ERNEI between 7000 and 8000, then on track 017° to cross NUNZO at 6000 and at 210K, then on track 017°. Expect RADAR vectors to final approach course.

**LANDING RWY 4R:** From JOODY on track 035° to cross SOFEE between 9000 and 10000 and at 220K, then on track 035° to cross ERNEI between 7000 and 8000, then on track 035° to cross GOSHI at 6000 and at 210K, then on track 035°. Expect RADAR vectors to final approach course.

**LANDING RWY 15R:** From JOODY on track 075° to cross JAYNA at 11000 and at 250K, then on track 034° to cross BOXRS at 8000 and at 250K, then on track 034° to cross CHERS at 6000 and at 220K, then on track 328° to cross RDHOK at 6000 and at 210K, then on track 329° to cross TKMAN at 6000 and at 210K, then on track 329°. Expect RADAR vectors to final approach course.

**LANDING RWY 22L/R:** From JOODY on track 075° to cross KRANN between 11000 and 12000 and at 250K, then on track 075° to cross CRADL between 8000 and 10000, then on track 063° to cross KLEBB at 8000 and at 250K, then on track 027° to cross ETHYN at 5000 and at 250K, then on track 331° to cross PTRIK at 5000 and at 220K, then on track 035° to cross TAALE at 5000 and at 210K, then on track 035°. Expect RADAR vectors to final approach course.

**LANDING RWY 27:** From JOODY on track 075° to cross KRANN between 11000 and 12000 and at 250K, then on track 075° to cross CRADL between 8000 and 10000, then on track 063° to cross KLEBB at 8000 and at 250K, then on track 024° to cross HOKDU at 5000 and at 210K, then on track 024°. Expect RADAR vectors to final approach course.

**LANDING RWYS 32, 33L:** From JOODY on track 075° to cross JAYNA at 11000 and at 250K, then on track 074° to cross ANSLY at 8000 and at 240K, then on track 071° to cross BEREI between 6000 and 7000 and at 220K, then on track 060° to cross BBOGG at 6000 and at 210K, then on track 060°. Expect RADAR vectors to final approach course.
From over ORW VOR/DME via ORW R-057 to WOONS INT. Expect radar vectors to final.