CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTION IS REQUIRED.
BEXGO THREE DEPARTURE (RNAV)

TOP ALTITUDE:
(JETS) 7000/(PROPS) 2000

NOTE: Transponder code will be assigned via PDC or Raleigh clearance delivery.
NOTE: If unable to accept climb rate, advise ATC on initial contact.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 5L/5R: Climb heading 054° or as assigned by ATC, expect RADAR vectors to AIMHI, thence.
TAKEOFF Rwy 14: Climb heading 144° or as assigned by ATC, expect RADAR vectors to AIMHI, thence.
TAKEOFF RWYS 23L/23R: Climb heading 234° or as assigned by ATC, expect RADAR vectors to AIMHI, thence.
TAKEOFF Rwy 32: Climb heading 324° or as assigned by ATC, expect RADAR vectors to AIMHI, thence.

on track 046° to BEXGO, turbojets maintain 7000, propellers maintain 2000.
Expect clearance to filed altitude within ten minutes after departure.

LAWRENCEVILLE TRANSITION (BEXGO3.LVL)

BEXGO THREE DEPARTURE (RNAV)

RALEIGH-DURHAM INTL (RDU)
RALEIGH/DURHAM, NORTH CAROLINA

BEXGO3.BEXGO 24MAY18

SE-2, 02 JAN 2020 to 30 JAN 2020
TAKEOFF MINIMUMS
Rwys 5L, 5R, 14, 23L, 23R: Standard.
Rwy 32: 300-1.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 5L/R: Climb heading 054°, thence. . . .
TAKEOFF RWY 14: Climb heading 144° to 1400, thence. . . .
TAKEOFF RWY 23L: Climb heading 234° to 1900, thence. . . .
TAKEOFF RWY 23R: Climb heading 234° to 1800, thence. . . .
TAKEOFF RWY 32: Climb heading 324°, thence. . . .

. . . .or as assigned for vectors to assigned transition. Expect clearance to filed altitude/flight level ten minutes after departure.

DANVILLE TRANSITION (BLUUE6.DAN): From over RDU VORTAC on RDU R-295 to JAYRR INT then on DAN R-189 to DAN VOR.
GREENSBORO TRANSITION (BLUUE6.GSO): From over RDU VORTAC on RDU R-295 to JAYRR INT then on GSO R-097 to GSO VORTAC.
TAKEOFF MINIMUMS
Rwys 5L, 5R, 14, 23L, 23R: Standard.
Rwy 32: 300-1.

NOTE: RADAR required.

TAKEOFF ROUTE DESCRIPTION

TAKEOFF RWY 5L/R: Climb heading 054°, thence . . .
TAKEOFF RWY 14: Climb heading 144° to 1400, thence . . .
TAKEOFF RWY 23L: Climb heading 234° to 1900, thence . . .
TAKEOFF RWY 23R: Climb heading 234° to 1800, thence . . .
TAKEOFF RWY 32: Climb heading 324°, thence . . .

. . .or as assigned for vectors to join RDU R-215 thence via RDU R-215 and FAY R-360 to FAY VOR/DME then via assigned route. Expect clearance to filed altitude/flight level ten minutes after departure.
TAKEOFF MINIMUMS
Rwys 5L, 5R, 14, 23R: Standard with minimum climb of 500' per NM to 940.
Rwy 23L: Standard with minimum climb of 500' per NM to 1100.
Rwy 32: 300-1 with minimum climb of 500' per NM to 940.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 5L/5R: Climb heading 054° or as assigned by ATC, expect RADAR vectors to FITON, thence.
TAKEOFF RWY 14: Climb heading 144° or as assigned by ATC, expect RADAR vectors to FITON, thence.
TAKEOFF RWYS 23L/23R: Climb heading 234° or as assigned by ATC, expect RADAR vectors to FITON, thence.
TAKEOFF RWY 32: Climb heading 324° or as assigned by ATC, expect RADAR vectors to FITON, thence.

. . . .on track 197° to HOOKZ, turbojets maintain 7000, propellers maintain 2000. Expect clearance to filed altitude within ten minutes after departure.

FAYETTEVILLE TRANSITION (HOOKZ3.FAY)
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 5L/5R: Climb heading 054° or as assigned by ATC, expect RADAR vectors to STRMY, thence. . . .
TAKEOFF RWY 14: Climb heading 144° or as assigned by ATC, expect RADAR vectors to STRMY, thence. . . .
TAKEOFF RWYS 23L/23R: Climb heading 234° or as assigned by ATC, expect RADAR vectors to STRMY, thence. . . .
TAKEOFF RWY 32: Climb heading 324° or as assigned by ATC, expect RADAR vectors to STRMY, thence. . . .

. . . . on track 092° to HURIC, turbojets maintain 7000, propellers maintain 2000. Expect clearance to filed altitude within ten minutes after departure.

TAR RIVER TRANSITION (HURIC3.TYI)
**DEPARTURE ROUTE DESCRIPTION**

**TAKEOFF RWY 5L/5R:** Climb heading 054° or as assigned by ATC, for RADAR vectors to FOCAL, then on depicted route to LWOOD, thence . . .

**TAKEOFF RWY 23L/23R:** Climb heading 234° or as assigned by ATC, for RADAR vectors to FOCAL then on depicted route to LWOOD, thence . . .

. . . . on assigned transition, maintain 7000 or altitude assigned by ATC. Expect clearance to filed altitude within ten minutes after departure.

**PULASKI TRANSITION (LWOOD3.PSK)**

**ROANOKE TRANSITION (LWOOD3.ROA)**

**TAKEOFF MINIMUMS:**

- **Rwy 14, 32:** NA-Runway too short for Turbojets.
- **Rwys 5L, 5R, 23R:** Standard with minimum climb of 500' per NM to 940.
- **Rwy 23L:** Standard with minimum climb of 500’ per NM to 1100’.

**NOTE:** Chart not to scale.

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**NOTE:**
- Transponder code will be assigned via PDC or Raleigh clearance delivery.
- If unable to accept climb rate, advise ATC on initial contact.
- RNAV 1.
- DME/DME/IRU or GPS required.
- RADAR required.
- For Turbojet aircraft only.

---

**LWOOD THREE DEPARTURE (RNAV)**

(LWOOD3.LWOOD) 08NOV18

RALEIGH-DURHAM, NORTH CAROLINA

RALEIGH-DURHAM INTL (RDU)
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 5L/5R: Climb heading 054° or as assigned by ATC, expect RADAR vectors to PEAVY, thence.

TAKEOFF RWY 14: Climb heading 144° or as assigned by ATC, expect RADAR vectors to PEAVY, thence.

TAKEOFF RWYS 23L/23R: Climb heading 234° or as assigned by ATC, expect RADAR vectors to PEAVY, thence.

TAKEOFF RWY 32: Climb heading 324° or as assigned by ATC, expect RADAR vectors to PEAVY, thence.

...on track 025° to OXFRD, turbojets maintain 7000, propellers maintain 2000. Expect clearance to filed altitude within ten minutes after departure.

FLAT ROCK TRANSITION (OXFRD3.FAK)

FEATURING NOTE: Chart not to scale.
NOTE: Chart not to scale.

TAKEOFF MINIMUMS
Rwys 14, 32: NA-ATC.
Rwys 5L/R, 23L/R: Standard.

NOTE: Turbojets only.

TAKEOFF RWYS 5L/R: Climb heading 054°, thence...
TAKEOFF RWYS 23L/R: Climb heading 234°, thence...

...as assigned to join filed route/fix, expect clearance to filed altitude/flight level ten minutes after departure.

ROANOKE TRANSITION (PACK8.ROA): From over RDU VORTAC on RDU R-274 and LIB R-088 to LIB VORTAC, then on LIB R-350 and ROA R-170 to ROA VOR/DME.

SHPRD TRANSITION (PACK8.SHPRD): From over RDU VORTAC on RDU R-274 and LIB R-088 to LIB VORTAC, then on LIB R-261 to SHPRD.
RALEIGH NINE DEPARTURE

D-ATIS 123.8
CLNC DEL 120.1
CPDLC
RALEIGH DEP CON
125.3 353.675 (025°-229°)
132.35 256.9 (230°-024°)

RALEIGH DEP CON
120.1
CPDLC
RALEIGH DEP CON
125.3 353.675 (025°-229°)
132.35 256.9 (230°-024°)

RALEIGH NINE DEPARTURE

FLAT ROCK
113.3 FAK
Channel 80
N37°31.71'-W77°49.69'
L-36, H-10-12

SOUTH BOSTON
110.4 SBV
Channel 41
N36°40.50'-W79°00.87'
L-26-36, H-9-12

NOTE: Chart not to scale.

TOP ALTITUDE:
(JETS) 7000/
(PROPS) 2000

RALEIGH/DURHAM INTL (RDU)
RALEIGH/DURHAM, NORTH CAROLINA

NOTE: RADAR required.
NOTE: ROZBO departures expect RADAR vectors to RDU R-181.

TAKEOFF MINIMUMS
Rwys 5L/R: Standard.
Rwy 23L: Standard with a minimum climb of 250' per NM to 2700.
Rwy 23R: Standard with a minimum climb of 240' per NM to 2700.
Rwy 14: Standard with a minimum climb of 310' per NM to 1500.
Rwy 32: 300-1.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 5L/R: Climb heading 054°, thence. . . .
TAKEOFF RWY 14: Climb heading 144°, thence. . . .
TAKEOFF RWYS 23L/R: Climb heading 234°, thence. . . .
TAKEOFF RWY 32: Climb heading 324°, thence. . . .

. . . .or as assigned for RADAR vectors to join filed route, jets maintain 7000, props maintain 2000. Expect clearance to filed altitude/flight level ten minutes after departure.
ROZBO THREE DEPARTURE (RNAV)

D-ATIS
123.8
CLNC DEL
120.1
CPDLC
GND CON
121.9 348.6 (EAST)
(Rwy s 5R-23L, 14-32)
121.7 348.6 (WEST)
(Rwy 5L-23R)
RALEIGH TOWER
127.45 257.8 (EAST)
(Rwys 5R-23L, 14-32)
119.3 257.8 (WEST)
(Rwy 5L-23R)
RALEIGH DEP CON
125.3 353.675

NOTE: Chart not to scale.

NOTE: Transponder code will be assigned via PDC or Raleigh clearance delivery.
NOTE: If unable to accept climb rate, advise ATC on initial contact.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.

TAKEOFF MINIMUMS
Rwys 5L, 5R, 14, 23R: Standard with minimum climb of 500’ per NM to 940.
Rwy 23L: Standard with minimum climb of 500’ per NM to 1100.
Rwy 32: 300-1 with minimum climb of 500’ per NM to 940.

TAKEOFF ROUTE DESCRIPTION
TAKEOFF RWYS 5L/R: Climb heading 054° or as assigned by ATC, expect RADAR vectors to EAGER then on track 182° to ROZBO, thence...
TAKEOFF RWY 14: Climb heading 144° or as assigned by ATC, expect RADAR vectors to EAGER then on track 182° to ROZBO, thence...
TAKEOFF RWYS 23L/R: Climb heading 234° or as assigned by ATC, expect RADAR vectors to EAGER then on track 182° to ROZBO, thence...
TAKEOFF RWY 32: Climb heading 324° or as assigned by ATC, expect RADAR vectors to EAGER then on track 182° to ROZBO, thence...

...on assigned transition, turbojets maintain 7000, propellers maintain 2000. Expect clearance to filed altitude within ten minutes after departure.

CAROLINA BEACH TRANSITION (ROZBO3.CLB)
CHARLESTON TRANSITION (ROZBO3.CHS)
WILMINGTON TRANSITION (ROZBO3.ILM)
**SHPRD THREE DEPARTURE (RNAV)**

**TOP ALTITUDE:** 7000

**NOTE:** Chart not to scale.

**DEPARTURE ROUTE DESCRIPTION**

**TAKEOFF RWYS 5L/R:** Climb heading 054° or as assigned by ATC, expect RADAR vectors to CATAR, thence.

**TAKEOFF RWYS 23L/R:** Climb heading 234° or as assigned by ATC, expect RADAR vectors to CATAR, thence.

. . . . on depicted route to SHPRD, maintain 7000 or altitude assigned by ATC.

Expect clearance to filed altitude within ten minutes after departure.

**TAKEOFF MINIMUMS**

- Rwys 14, 32: NA - Runway too short for turbojets.
- Rwys 5L, 5R, 23R: Standard with minimum climb of 500’ per NM to 940.
- Rwy 23L: Standard with minimum climb of 500’ per NM to 1100.

**NOTE:** Chart not to scale.
**TAKEOFF MINIMUMS**

Rwys 5L/R: Standard.

- Rwy 14: Standard with minimum climb of 230° per NM to 2700.
- Rwy 23L: Standard with minimum climb of 250° per NM to 2700.
- Rwy 23R: Standard with minimum climb of 240° per NM to 2700.
- Rwy 32: 300-1.

**NOTE:** Chart not to scale.

### DEPARTURE ROUTE DESCRIPTION

**TAKEOFF RWYS 5L/5R:** Climb heading 054° or as assigned by ATC, thence.

**TAKEOFF RWY 14:** Climb heading 144° or as assigned by ATC, thence.

**TAKEOFF RWY 23L/R:** Climb heading 234° or as assigned by ATC, thence.

**TAKEOFF RWY 32:** Climb heading 324° or as assigned by ATC, thence.

. . . . on vectors to join filed route/fix. Expect clearance to filed altitude/flight level ten minutes after departure.

**CAROLINA BEACH TRANSITION (TARL1.CLB):** From over RDU VORTAC on RDU R-181 to ROZBO INT, then on CLB 156° bearing to CLB NDB.

**CHARLESTON TRANSITION (TARL1.CHS):** From over RDU VORTAC on RDU R-181 to ROZBO INT, then on CHS R-034 to CHS VORTAC.
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.

<table>
<thead>
<tr>
<th>CITY/AIRPORT</th>
<th>HOT SPOT</th>
<th>DESCRIPTION*</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASHEVILLE, NC</td>
<td>HS 1</td>
<td>Maintain vigilance Twy A1 Hold Short lines Non-Standard.</td>
</tr>
<tr>
<td>ASHEVILLE RGNL (AVL)</td>
<td>HS 2</td>
<td>Maintain vigilance Twy A4 Hold Short lines Non-Standard.</td>
</tr>
<tr>
<td>CHARLESTON, SC</td>
<td>HS 1</td>
<td>Twy A and Twy F and Rwy 15-33 confusing int.</td>
</tr>
<tr>
<td>CHARLESTON AFB/INTL (CHS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHARLOTTE, NC</td>
<td>HS 1</td>
<td>Confusing int due to convergence of Twy R, Twy A, Twy C and Twy C9, along with grass island.</td>
</tr>
<tr>
<td>CHARLOTTE/DOUGLAS INTL (CLT)</td>
<td>HS 2</td>
<td>Pilots exiting Rwy 18C-36C on Twy S for either Twy E or Twy F mistakenly turn left on Twy E5 and re-enter the rwy.</td>
</tr>
<tr>
<td></td>
<td>HS 3</td>
<td>Maintain vigilance northbound on Twy C approaching Twy C10 twy signs not aligned, allow for wingtip clearance with traffic exiting Rwy 36R at Twy C10.</td>
</tr>
<tr>
<td>COLUMBIA, SC</td>
<td>HS 1</td>
<td>Rwy 23 departures miss the turn from Twy A eastbound to Twy C.</td>
</tr>
<tr>
<td>COLUMBIA METROPOLITAN (CAE)</td>
<td>HS 2</td>
<td>Maintain vigilance due to twy geometry. Twy D enters Rwy 29 behind THR. Twy D7 requires aircraft to turn parallel to Rwy 29 prior to Twy D.</td>
</tr>
<tr>
<td></td>
<td>HS 3</td>
<td>Acft exiting Rwy 11-29 maintain vigilance as hold position markings are north of Twy F and Twy A6. Twy A3.</td>
</tr>
<tr>
<td>GREENSBORO, NC</td>
<td>HS 1</td>
<td>Maintain vigilance confusing twy, turn right onto Twy K6, only cargo N of Twy K6.</td>
</tr>
<tr>
<td>PIEDMONT TRIAD INTL (GSO)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HICKORY, NC</td>
<td>HS 1</td>
<td>Maintain vigilance confusing int, Rwy 01-19 hold bar close to Twy A3.</td>
</tr>
<tr>
<td>HICKORY RGNL (HKY)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RALEIGH/DURHAM, NC</td>
<td>HS 1</td>
<td>Int of Rwy 05R-23L and Twy C.</td>
</tr>
<tr>
<td>RALEIGH-DURHAM INTL (RDU)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WILMINGTON, NC</td>
<td>HS 1</td>
<td>Maintain vigilance confusing int, close proximity to rwy.</td>
</tr>
<tr>
<td>WILMINGTON INTL (ILM)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*See appropriate Chart Supplement HOT SPOT table for additional information.
ILS RWY 5R (SA CAT I & II)
RALEIGH-DURHAM INTL (RDU)

**Simultaneous approach authorized.**
- **SA CAT I:** Requires specific OPSPEC, MSPEC or LOA approval and use of HUD to DH.
- **SA CAT II:** Reduced lighting: Requires specific OPSPEC, MSPEC or LOA approval and use of autoland or HUD to touchdown.

**MISSED APPROACH:** Climb to 1000 then climbing right turn to 2600 on heading 130° and on RDU VORTAC R-092 to ZEBUL INT/RDU 19.6 DME and hold.

**ALTERNATE MISSED APCH FIX**
- ZEBUL TYI 33.3
- MSA RDU 25 NM

**RADAR required for procedure entry.**

**LOCA**
- **ILS LOCALIZER 109.5**
- **I-RDU 13.5 RADAR**
- **PECIT I-RDU 13.5 RADAR**
- **RDU 117.2 HDG 130°**
- **ZEBUL HDG 130°**

**GS 3.00° TCH 56°**
- 054°
- 2400
- 4000

**LOA approval and use of autoland or HUD to touchdown.**
- **SA CAT II:** Reduced lighting: Requires specific OPSPEC, MSPEC or LOA approval and use of autoland or HUD to touchdown.
- **SA CAT I:** Requires specific OPSPEC, MSPEC or LOA approval and use of HUD to DH.

**CATEGORY II & III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED**

RALEIGH/DURHAM, NORTH CAROLINA

**SE-2, 02 JAN 2020 to 30 JAN 2020**
**RALEIGH/DURHAM, NORTH CAROLINA**

**LOC/DME I-LEI**
- **108.5**
- **APP CRS 234°**
- **Rwy Idg 7500**
- **TDZE 435**
- **Apt Elev 435**

**ILS or LOC RWY 23L**
**RALEIGH-DURHAM INTL (RDU)**

**D-ATIS**
- **RALEIGH APP CON 123.8**
- **RALEIGH TOWER (WEST) 127.45**
- **RALEIGH TOWER (EAST) 119.3**

**MALSR**
- **RSR**
- **RSR**

**MISSED APPROACH:** Climb to 1100 then climbing left turn to 2600 on heading 050° and RDU VORTAC R-092 to ZEBUL INT and hold.

**GND CON**
- **121.9 348.6**
- **121.7 348.6**

**CLNC DEL 120.1**
- **CPDLC**

**RALEIGH-DURHAM**
- **117.2 RDU**
- **Chan 119**

**ZEBUL TYI**
- **117.8 TYI**
- **Chan 125**

**MAA RDU 25 NM**
- **3400**

**LOCALIZER 108.5**
- **I-LEI 5.5**
- **Chan 22**

**ELEV 435**
- **TDZE 435**

**REIL Rwy 32**
- **MIRL Rwy 14-32**
- **HIRL Rwy 5R-23L and 5L-23R**
- **TDZ/CL Rwy 23R, 23L and 5L.**

**APPCU I-LEI 5.5**
- **RADAR**

**APUCU I-LEI 13.5**
- **DOCAT I-LEI**

**TDZE**
- **435**

**SE-2, 02 JAN 2020 to 30 JAN 2020**

**AWC 2021A**

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

**S-ILS 23L**
- **806/35**
- **371 (400-%)**

**S-LOC 23L**
- **840/40**
- **405 (500-%)**

**CIRCLING**
- **960-1  525 (600-1%)**
- **1040-1  605 (700-1%)**
- **1180-2  745 (800-2%)**

**SE-2, 02 JAN 2020 to 30 JAN 2020**

**AL-516 (FAA)**

**RALEIGH-DURHAM INTL (RDU)**

**ILS or LOC RWY 23L**

**RALEIGH/DURHAM, NORTH CAROLINA**

**Amendment 9A 11OCT18**

**35°53'N-78°47'W**

**RALEIGH-DURHAM, NORTH CAROLINA**

**Amend 9A 11OCT18**

**35°53'N-78°47'W**
**ILS or LOC RWY 23R**

**RALEIGH-DURHAM INTL (RDU)**

**AL-516 (FAA)**

<table>
<thead>
<tr>
<th>LOC/DME</th>
<th>I-DMP</th>
<th>APP CRS</th>
<th>Rwy Idg</th>
<th>Apt Elev</th>
<th></th>
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<tbody>
<tr>
<td>111.7</td>
<td>54</td>
<td>234°</td>
<td>10000</td>
<td>409</td>
<td>435</td>
</tr>
</tbody>
</table>

**RADAR** required for procedure entry, DME or RADAR required.

**ALTIMETER** correction when using localizer.

<table>
<thead>
<tr>
<th>D-ATIS</th>
<th>RA</th>
<th>APP CON</th>
<th>(EAST) RA</th>
<th>APP CON</th>
<th>(WEST)</th>
</tr>
</thead>
<tbody>
<tr>
<td>123.8</td>
<td>128.3</td>
<td>307.9</td>
<td>127.45</td>
<td>257.8</td>
<td>119.3</td>
</tr>
</tbody>
</table>

**MISSING APPROACH:** Climb to 1000 then climbing right turn to 2200 on heading 030° and on RDU VORTAC R-356 to DHUAM INT/RDU 11 DME and hold.

**Simultaneous approach** authorized.

**ELEV** 435

**TDZE** 409

**Reil** Rwy 32

**Mirl** Rwy 14-32

**Hirl** Rwy 5R-23L and 5L-23R

**Tdz/Cl** Rwy 23R, 23L and 5L

**Localizer** 111.7

**I-DMP** 3.8

**Chan** 54

**GiyeP** I-DMP 3.8

**Bodly** I-DMP 7.2

**Radar**

**GIYEPEP** I-DMP 13.2 (IF)

**Prstn** I-DMP 13.2

**GiyeP Fix** 1160

**Apt Elev** 3.4 NM

**GiyeP Fix Minimums**

<table>
<thead>
<tr>
<th>Category</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-ILS 23R</td>
<td>1160/24</td>
<td>1160/40</td>
<td>1160-1°</td>
<td>1160-2</td>
</tr>
<tr>
<td>S-LOC 23R</td>
<td>751 (800-1')</td>
<td>751 (800-1')</td>
<td>751 (800-1')</td>
<td>751 (800-2')</td>
</tr>
<tr>
<td><strong>Circling</strong></td>
<td>1160-1</td>
<td>1160-1°</td>
<td>1160-2°</td>
<td>1160-2°</td>
</tr>
<tr>
<td>S-LOC 23R</td>
<td>900/24</td>
<td>491 (500-1')</td>
<td>900/40</td>
<td>900/50</td>
</tr>
<tr>
<td><strong>Circling</strong></td>
<td>960-1</td>
<td>525 (600-1')</td>
<td>1040-1°</td>
<td>1180-2°</td>
</tr>
</tbody>
</table>

**FAF to MAP** 5.4 NM

<table>
<thead>
<tr>
<th>Knots</th>
<th>60</th>
<th>90</th>
<th>120</th>
<th>150</th>
<th>180</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Min/Sec</strong></td>
<td>5:24</td>
<td>3:36</td>
<td>2:42</td>
<td>2:10</td>
<td>1:48</td>
</tr>
</tbody>
</table>

**RALEIGH/DURHAM, NORTH CAROLINA**

**Amdt 11C 24MAY18**

**RALEIGH-DURHAM INTL (RDU)**

35°53'N-78°47'W
ILS or LOC RWY 5R
RALEIGH-DURHAM INTL (RDU)

**LOC/DME I-RDU**
- **109.5**
- **Chan 32**
- **APP CRS 054°**
- **Rwy Idg 7500**
- **TDZE 420**
- **Apt Elev 435**

**Radar Required** for procedure entry.
**DME Required** for LOC only.

**Simultaneous Approach Authorized.**

**# RVR 1800 authorized with use of FD or AP or HUD to DA.**

**MALSR**

**MISSING APPROACH:** Climb to 1000 then climbing right turn to 2600 on heading 130° and on RDU VORTAC R-092 to ZEBUL INT/RDU 19.6 DME and hold.

**D-ATIS**
- **RALEIGH APP CON 123.8**
- **RALEIGH TOWER (EAST) 127.45**
- **RALEIGH TOWER (WEST) 119.3**
- **GND CON (EAST) 121.9**
- **GND CON (WEST) 121.7**
- **CLNC DEL 120.1**
- **CPDLC**

**Alternate Missed Apch Fix**

**Loc 109.5 I-RDU Chan 32**

**TVY**

**RDU**

**ZEBUL**

**AMORT I-RDU 2.8**

**RADAR**

**I-RDU 13.5**

**PECIT I-RDU 13.5**

**PURME I-RDU 13.5**

**IF/IAF ZEBUL Chan 32**

**GS 3.00° TCH 56**

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

**S-ILS 5R #**
- **620/24 200 (200-3/4)**

**S-LOC 5R**
- **760/24**
- **340 (400-3/4)**
- **760/26**
- **340 (400-3/4)**

**CIRCLING**
- **960-1 525 (600-1)**
- **1020-1 5/2**
- **585 (600-1 1/2)**
- **745 (800-2 1/2)**

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

**SE-2, 02 JAN 2020 to 30 JAN 2020**

**RALEIGH/DURHAM, NORTH CAROLINA**

**AL-516 (FAA)**

**RALEIGH-DURHAM, NORTH CAROLINA**

**SE-2, 02 JAN 2020 to 30 JAN 2020**
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -9°C or above 54°C. Use of FD or AP providing RNAV track guidance required during simultaneous operations. Simultaneous approach authorized, except for arrivals at KENCH.

See planview for multiple IF locations.
RNAV (RNP) Z RWY 23R
RALEIGH-DURHAM INTL (RDU)

RNP AR APCH, RF required.

For uncompensated Baro-VNAV systems, procedure NA below -9°C (16°F) or above 54°C (130°F). Use of FD or AP providing RNAV track guidance required during simultaneous operations. Simultaneous approach authorized with ILS or LOC Rwy 23L, RNAV (GPS) Y Rwy 23L, except for arrivals at GLEYS and BUTTS. For inop ALS, increase RNP 0.15 all Cats visibility to 1/3, increase RNP 0.30 all Cats visibility to 1/3.

RSF-2

MISSED APPROACH: Climb to 3000 on track 234° to SCHOO and hold.

D-ATIS
RALEIGH APP CON
(R) 234°

(EAST) RALEIGH TOWER (WEST)
127.45 257.8
Rwys 5R-23L and 14-32

(R) 234°

(EAST) GND CON (WEST) CLNCE DEL
121.9 348.6
Rwys 5R-23L and 14-32
121.7 348.6
Rwys 5L-23R
120.1

GND CON
Rwys 5L-23R

AUTHORIZATION REQUIRED

35°53’N-78°47’W

SE-2, 02 JAN 2020 to 30 JAN 2020
RNAV (RNP) Z RWY 5R
RALEIGH-DURHAM INTL (RDU)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -9°C or above 54°C. Use of FD or AP providing RNAV track guidance required during simultaneous operations. For inop ALS, increase RNP 0.30 all Cats visibility to RVR 4500. Simultaneous approach authorized, except for arrivals at STINT.

MISSED APPROACH: Climb to 3000 on track 054° to HOKEB and on track 078° to HIKOR and hold.

RNP 0.30 DA

AUTHORIZATION REQUIRED
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). Simultaneous approach authorized. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

Missed approach: Climb to 3100 direct GUKEY and right turn on 297° track to CHAPL and hold.

Nav Data

- RNAV (GPS) Y RWY 23R
- RALEIGH-DURHAM INTL (RDU)
- Category VNAV
- LNAV/A
- LPV DA
- LNAV/ VNAV DA
- LNAV MDA
- CIRCLING

Amdt 1C 24May18
VOR RWY 23L
RALEIGH-DURHAM INTL (RDU)

Category

<table>
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<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<tbody>
<tr>
<td>S-23L</td>
<td>1060/24</td>
<td>1060/60</td>
<td>1060-1½</td>
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<tr>
<td></td>
<td>625 (700-1½)</td>
<td>625 (700-1¼)</td>
<td>625 (700-1½)</td>
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<td>CIRCLING</td>
<td>1060-1</td>
<td>1060-1¾</td>
<td>1180-2½</td>
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<td></td>
<td>625 (700-1)</td>
<td>625 (700-1¾)</td>
<td>745 (800-2)</td>
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</table>

MISSED APPROACH: Climbing left turn to 2600 on RDU VORTAC R-092 to ZEBUL INT/19.6 DME and hold.

RALEIGH/DURHAM, NORTH CAROLINA

SE-2, 02 JAN 2020 to 30 JAN 2020

Amdt 14F 24MAY18
For inop ALS, increase S-5R Cat C/D visibility to 1½ SM.

For missed approach, climbing right turn to 2600 DME and hold.

IAF: RALEIGH-DURHAM

Rwy Idg 7500
TDZE 420
Apt Elev 435

MALSR

A
B
C
D

060°

240°

2000

2600

ZEFUL

RDU

R-092

060° to VORTAC

RDU

2600

ZEFUL

RDU

R-092

2000

117.2 RDU

Chan 119

RALEIGH/DURHAM, NORTH CAROLINA

Amdt 13F  15AUG19

RALEIGH-DURHAM INTL (RDU)

35°53'N-78°47'W

SE-2, 02 JAN 2020 to 30 JAN 2020
### IFR Alternate Minimums

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

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<td><strong>ALBEMARLE, NC</strong></td>
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<td>STANLY COUNTY (VUJ)</td>
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<td>2ILS, Categories A, B, C, D, 700-2.</td>
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<td>VOR-A</td>
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<td>ANDERSON RGNL (AND)</td>
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<td>**BENNETTSSVILLE, SC</td>
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<td>VOR/DME or TACAN Rwy 3(^2)</td>
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<td>CHERAW, SC</td>
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<td>²Category D, 800-2¼.</td>
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<td>²NA when control tower closed.</td>
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<td>⁵Category D, 900-2¾.</td>
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<td>³Category D 800-2¼.</td>
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<tr>
<td>¹NA when control tower closed.</td>
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<tr>
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<td>¹Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¼.</td>
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ALTERNATE MINS

NAME                  ALTERNATE MINIMUMS

OAK ISLAND, NC
CAPE FEAR RGNL JETPORT/HOWIE
FRANKLIN FIELD (SUT)........RNAV (GPS) Rwy 5
RNAV (GPS) Rwy 23
NA when local weather not available.

ORANGEBURG, SC
ORANGEBURG
MUNI (OGB)....................RNAV (GPS) Rwy 5 1
RNAV (GPS) Rwy 17 2
RNAV (GPS) Rwy 23 1
RNAV (GPS) Rwy 35 1
NA when local weather not available.
1Category D, 800-2 1/2.
2Category D, 800-2 1/4.

OXFORD, NC
HENDERSON-OXFORD (HNZ).....LOC Rwy 6
NDB Rwy 6
RNAV (GPS) Rwy 6
RNAV (GPS) Rwy 24
NA when local weather not available.
Category D, 800-2 1/2.

PINEHURST/SOUTHERN PINES, NC
MOORE
COUNTY (SOP)...............ILS Y or LOC Y Rwy 5 1
ILS Z or LOC Z Rwy 5 1
RNAV (GPS) Rwy 23 2
RNAV (GPS) Rwy 23 2
1LOC, Category D, 1000-3.
2Category D, 1000-3.
NA when local weather not available.

RALEIGH/DURHAM, NC
RALEIGH-DURHAM
INTL (RDU).....................ILS or LOC Rwy 5L 1
ILS or LOC Rwy 5R 1
ILS or LOC Rwy 23L 1
ILS or LOC Rwy 23R 2
RNAV (GPS) Y Rwy 5L 3
RNAV (GPS) Y Rwy 5R 3
RNAV (GPS) Y Rwy 23L 3
RNAV (GPS) Y Rwy 23R 3
VOR Rwy 5R 4
VOR Rwy 23L 4
VOR Rwy 32 4
1LOC, Category D, 800-2 1/2.
2Category D, 800-2 1/4.
3Category C, 800-2 1/4; Category D, 800-2 1/2.
4Category C, 800-2 1/4; Category D, 800-2 1/2.

REIDSVILLE, NC
ROCKINGHAM COUNTY NC
SHILOH (SIF)....................NDB Rwy 31
RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 31
NA when local weather not available.

ROANOKE RAPIDS, NC
HALIFAX-NORTHAMPTON
RGNL (IXA)......................RNAV (GPS) Rwy 2
RNAV (GPS) Rwy 20
VOR Rwy 2
Category D, 800-2 1/2.

ROCK HILL, SC
ROCK HILL/YORK CO/
BRYANT FIELD (UZA).........RNAV (GPS) Rwy 2 1
RNAV (GPS) Rwy 20
NA when local weather not available.
1Category D, 800-2 1/4.

ROCKINGHAM, NC
RICHMOND
COUNTY (RCZ)..................RNAV (GPS) Rwy 32
NA when local weather not available.

ROCKY MOUNT, NC
ROCKY MOUNT-WILSON
RGNL (RWI).....................RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 22
VOR/DME Rwy 22
NA when local weather not available.

ROXBORO, NC
PERSON
COUNTY (TDF)..................RNAV (GPS) Rwy 6
RNAV (GPS) Rwy 24
NA when local weather not available.

RUTHERFORDTON, NC
RUTHERFORD CO/MARCHMAN
FIELD (FQD).....................RNAV (GPS) Rwy 1
NA when local weather not available.
Category D, 800-2 1/4.

SALISBURY, NC
MID-CAROLINA
RGNL (RUQ).....................RNAV (GPS) Rwy 20
NA when local weather not available.

SANFORD, NC
RALEIGH EXECUTIVE JETPORT AT SANFORD
-LEE COUNTY (TTA).........RNAV (GPS) Rwy 3
RNAV (GPS) Rwy 21
NA when local weather not available.
Category D, 800-2 1/4.

SHELBY, NC
SHELBY-CLEVELAND
COUNTY RGNL (EHO).........NDB Rwy 23 1
RNAV (GPS) Rwy 5
RNAV (GPS) Rwy 23
NA when local weather not available.
1Category C, 800-2 1/4; Category D, 800-2 1/2.
# Alternate Minimums

## Siler City, NC

**MUNI (SCR)**

- RNAV (GPS) Rwy 4
- RNAV (GPS) Rwy 22

NA when local weather not available.

1 Category C, 800-2¼.

## Smithfield, NC

**JOHNSON RGNL (JNX)**

- RNAV (GPS) Rwy 3
- RNAV (GPS) Rwy 21

NA when local weather not available.

Category C, 800-2¼; Category D, 1000-3.

## Spartanburg, SC

**SPARTANBURG DOWNTOWN MEMORIAL / SIMPSON FIELD (SPA)**

- ILS or LOC Rwy 5
- RNAV (GPS) Rwy 5

NA when local weather not available.

## Statesville, NC

**STATESVILLE RGNL (SVH)**

- ILS Y or LOC Y Rwy 28
- ILS Z or LOC Z Rwy 28
- RNAV (GPS) Rwy 10
- RNAV (GPS) Rwy 28
- VOR/DME Rwy 10

NA when local weather not available.

1 NA when local weather not available.

2 NA when FBO closed.

## Summerville, SC

**SUMMERVILLE (DYB)**

- RNAV (GPS) Rwy 6
- RNAV (GPS) Rwy 24

1 Categories A, B, 900-2; Category C, 900-2¼.

2 NA when local weather not available.

## Sumter, SC

**SUMTER (SMS)**

- ILS or LOC Rwy 23
- RNAV (GPS) Rwy 25
- RNAV (GPS) Rwy 23

NA when local weather not available.

1 LOC, Category C, 900-2½; Category D, 900-2½.

2 Category C, 800-2¼; Category D, 800-2½.

3 Category C, 900-2½; Category D, 900-2½.

## Sylva, NC

**JACKSON COUNTY (24A)**

- RNAV (GPS) Rwy 33

NA when local weather not available.

Category A, 1600-2; Category B, 1700-2.

## Wadeboro, NC

**ANSON COUNTY-JEFF CLOUD FIELD (AFP)**

- ILS or LOC Rwy 34
- RNAV (GPS) Rwy 16
- RNAV (GPS) Rwy 34

NA when local weather not available.

1 ILS, Category C, 700-1½; Category D, 700-2¼. LOC, Category D, 800-2½.

2 Category D, 800-2½.

## Walthboro, SC

**LOWCOUNTRY RGNL (RBW)**

- RNAV (GPS) Rwy 5
- RNAV (GPS) Rwy 17
- RNAV (GPS) Rwy 23
- RNAV (GPS) Rwy 35

NA when local weather not available.

## Washington, NC

**WASHINGTON-WARREN (OCW)**

- RNAV (GPS) Rwy 5
- RNAV (GPS) Rwy 23
- RNAV (GPS) Rwy 35

NA when local weather not available.

## Whiteville, NC

**COLUMBUS COUNTY MUNI (CPC)**

- RNAV (GPS) Rwy 6
- RNAV (GPS) Rwy 24

NA when local weather not available.

Category D, 800-2¼.

## Wilmington, NC

**WILMINGTON INTL (ILM)**

- ILS Y or LOC Rwy 6
- ILS Y or LOC Rwy 24
- ILS Y or LOC Rwy 35
- RADAR-1
- RNAV (GPS) Rwy 17
- RNAV (GPS) Rwy 24
- RNAV (GPS) Rwy 35
- TACAN-A

1 ILS, Category C, 700-2; Category D, 900-3; LOC, Category D, 900-3.

2 LOC, Category D, 900-3.

3 Category D, 900-3.

4 NA when control tower closed.

## Winsboro, SC

**FAIRFIELD COUNTY (FDW)**

- RNAV (GPS) Rwy 22

Category D, 800-2½.

## Winston-Salem, NC

**SMITH REYNOLDS (INT)**

- ILS or LOC Rwy 33
- RNAV (GPS) Rwy 15
- RNAV (GPS) Rwy 33
- VOR Rwy 15

1 NA when control tower closed.

2 ILS, Categories B, C, 700-2; Category D, 800-2½. LOC, Category D, 800-2½.

3 Category D, 800-2½.

4 NA when local weather not available.
### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

#### AHOSKIE, NC

<table>
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<tr>
<th>NAME</th>
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<tr>
<td>TRI-COUNTY (ASJ)</td>
<td><strong>DEPARTURE PROCEDURES</strong></td>
<td>Aiken, SC</td>
<td><strong>DEPARTURE PROCEDURES</strong></td>
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<tr>
<td>ORIG 11125 (FAA)</td>
<td><strong>TAKEOFF OBSTACLE NOTES:</strong> Rwy 1, trees beginning at DER, 219' left of centerline, up to 100' AGL/169' MSL. Vehicles on road beginning 206' from DER, 443' left of centerline, up to 10' AGL/79' MSL. Trees beginning 457' from DER, 461' right of centerline, up to 100' AGL/169' MSL. Power lines beginning 5130' from DER, 1827' right of centerline, up to 100' AGL/169' MSL.</td>
<td><strong>TAKEOFF MINIMUMS:</strong> Rwy 1, 200-1¼ or std. with min. climb of 220' per NM to 800, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1400 feet prior to DER. <strong>DEPARTURE PROCEDURE:</strong> Rwy 19, climb heading 186° to 1100 before turning west.</td>
<td><strong>TAKEOFF OBSTACLE NOTES:</strong> Rwy 1, terrain 74' from DER, 9' left of centerline, 496' MSL. Trees beginning 169' from DER, 35' left of centerline, up to 100' AGL/659' MSL. Tree 6023' from DER, 1609' left of centerline, up to 100' AGL/649' MSL. Terrain beginning 75' from DER, 246' right of centerline up to 496' MSL. Trees beginning 1322' from DER, 241' right of centerline, up to 100' AGL/609' MSL. Rwy 7, terrain beginning 51' from DER, 207' right of centerline up to 499' MSL. Trees beginning 1230' from DER, 550' right of centerline, up to 100' AGL/609' MSL. Trees beginning 1601' from DER, 731' left of centerline, up to 56' AGL/563' MSL. Rwy 19, trees beginning 110' right of centerline, up to 100' AGL/629' MSL. Trees beginning 6' from DER, 82' left of centerline, up to 100' AGL/639' MSL. Rwy 25, tree 1244' from DER, 766' right of centerline, 73' AGL/572' MSL. Tree 1506' from DER, 661' left of centerline, 72' AGL/561' MSL.</td>
</tr>
</tbody>
</table>
ALBEMARLE, NC
STANLY COUNTY (VUJ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 11321 (FAA)
TAKEOFF MINIMUMS: Rwys 4L, 22R, NA - VFR runway. Rw 4R, 300-1½ or std. w/ min. climb of 276' per NM to 1000.
TAKEOFF OBSTACLE NOTES: Rw 4R, tree 4312' from DER, 374' right of centerline, 78' AGL/822' MSL. Tree 1.2 NM from DER, 2063' left of centerline, 98' AGL/837' MSL. Rw 22L, trees beginning 190' from DER, 142' right of centerline, up to 82' AGL/682' MSL. Railroad 438' from DER, 403' right of centerline, 23' AGL/620' MSL.

ALLENDALE, SC
ALLENDALE COUNTY (AQX)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 13290 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 17, trees beginning 11' from DER, 366' right of centerline, up to 100' AGL/222' MSL. Vehicles on roadway beginning 293' from DER, 558' left of centerline, up to 15' AGL/164' MSL. Trees 342' from DER, 577' left of centerline, up to 100' AGL/214' MSL. Trees beginning 1962' from DER, 603' left of centerline, up to 100' AGL/246' MSL. Rw 35, trees beginning 38' from DER, 306' right of centerline, up to 100' AGL/269' MSL. Trees beginning 95' from DER, 324' left of centerline, up to 100' AGL/289' MSL.

ANDERSON, SC
ANDERSON RGNL (AND)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 07018 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 5, multiple trees beginning 1282' from DER, 172' right of centerline, up to 93' AGL/879' MSL. Multiple trees beginning 85' from DER, 299' left of centerline, up to 89' AGL/878' MSL. Rw 17, multiple trees beginning 1017' from DER, 25' right of centerline, up to 73' AGL/800' MSL. Multiple trees beginning 3' from DER, 47' left of centerline, up to 77' AGL/820' MSL. Rw 23, transmission line tower and multiple trees beginning 1186' from DER, 552' left of centerline, up to 100' AGL/890' MSL. Rw 35, multiple trees beginning 131' from DER, 279' right of centerline, up to 87' AGL/854' MSL. Celometer and tree beginning 257' from DER, 319' left of centerline, up to 73' AGL/820' MSL.

ANDREWS, SC
WESTERN CAROLINA RGNL (RHP)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 10014 (FAA)
TAKEOFF MINIMUMS: Rwys 8, 26, max. 180 KIAS 3400-2, max. 210 KIAS 3400-2½, max. 250 KIAS 3400-3. DEPARTURE PROCEDURE: Rwys 8, 26, procedure NA at night. Remain within 3 NM of Western Carolina Rgnl while climbing in visual conditions to cross airport westbound at or above 4900. Then climb to 7000 via heading 251° and HARRIS (HRS) VORTAC R-356 to HRS VORTAC before proceeding on course.

ASHEBORO, NC
ASHEBORO RGNL (HBI)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 02332 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 3, std. with a min. climb of 230' per NM to 1200. Rw 21, 400-2 or std. with a min. climb of 340' per NM to 1200. DEPARTURE PROCEDURE: Rw 21, climb runway heading to 1500 before turning southeast.

ASHEVILLE, NC
ASHEVILLE RGNL (AVL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 15344 (FAA)
TAKEOFF MINIMUMS: Rw 17, std. w/ min. climb of 250' per NM to 4600 or 3600-3 for climb in visual conditions. Rw 35, std. w/ min. climb of 410' per NM to 5700 or 3600-3 for climb in visual conditions. DEPARTURE PROCEDURE: Rw 17, climb heading 167° to 4600 before proceeding on course. Rw 35, climb heading 347° to 5700 before proceeding on course. VCOA: Rw 17, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Asheville Rgnl airport at or above 5600 before proceeding on course. Note: VCOA NA at night. Rw 35, obtain ATC approval for climb in visual conditions when requesting IFR clearance. For climb in visual conditions to cross Asheville Rgnl airport at or above 5600 before proceeding on course. Note: VCOA NA at night. TAKOFF OBSTACLE NOTES: Rw 17, trees beginning 79' from DER, 452' right of centerline, up to 73' AGL/214' MSL. Rw 35, vehicle on road 44' from DER, 202' left of centerline, 15' AGL/2166' MSL. Trees beginning 65' from DER, 245' left of centerline, up to 92' AGL/2232' MSL. Trees beginning 701' from DER, 16' left of centerline, up to 65' AGL/2197' MSL.
TAKEOFF MINIMUMS (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

BAMBERG, SC
BAMBERG COUNTY (99N)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 11013 (FAA)
TAKEOFF MINIMUMS: Rwy 5, 400-2½ or std. w/ min. climb of 259’ per NM to 800.
TAKEOFF OBSTACLE NOTES: Rw 5, trees beginning at DER, 500’ left/right of centerline, up to 100’ AGL/329’ MSL. Power lines 2,527’ from DER, crossing centerline, up to 100’ AGL/627’ MSL. Tower 2 NM from DER, 2738’ right of centerline, 380’ AGL/627’ MSL. Rw 23, trees beginning at DER, 500’ left of centerline, up to 100’ AGL/319’ MSL.

BARNWELL, SC
BARNWELL RGNL (BNL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 07214 (FAA)
TAKEOFF MINIMUMS: Rwy 17, 300-2½ or std. w/ min. climb of 241’ per NM to 800.
DEPARTURE PROCEDURE: Rw 17, climb heading 165° to 1100 before turning. Rw 23, climb heading 230° to 1100 before turning south.
TAKEOFF OBSTACLE NOTES: Rw 5, trees beginning 1959’ from DER, 506’ right of centerline, up to 100’ AGL/329’ MSL. Trees beginning 2458’ from DER, 440’ left of centerline, up to 100’ AGL/359’ MSL. Rw 17, trees beginning 3225’ from DER, 1092’ right of centerline, up to 100’ AGL/339’ MSL. Tower 1.9 NM from DER, 3064’ left of centerline, 366’ AGL/544’ MSL. Rw 23, trees beginning 717’ from DER, 237’ right of centerline, up to 100’ AGL/339’ MSL. Trees beginning 971’ from DER, 254’ left of centerline, 100’ AGL/349’ MSL. Tree 2933’ from DER, 559’ left of centerline, 100’ AGL/319’ MSL. Rw 35, trees beginning 948’ from DER, 570’ left of centerline, up to 100’ AGL/349’ MSL. Trees beginning 2805’ from DER, 440’ right of centerline, up to 100’ AGL/359’ MSL.

BEAUFORT, NC
MICHAEL J. SMITH FIELD (MRH)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 13122 (FAA)
TAKEOFF MINIMUMS: Rw 21, 300-1 or std. w/ min. climb of 740’ per NM to 300.
TAKEOFF OBSTACLE NOTES: Rw 3, tree 41’ from DER, 379’ left of centerline, 58’ AGL/84’ MSL. Trees beginning 1030’ from DER, 351’ right of centerline, up to 54’ AGL/82’ MSL. Trees beginning 1873’ from DER, 21’ left of centerline, up to 100’ AGL/109’ MSL. Tree 2070’ from DER, 106’ right of centerline, 80’ AGL/86’ MSL. Tree 3039’ from DER, 613’ right of centerline, 100’ AGL/114’ MSL. Rw 8, trees beginning 447’ from DER, 140’ left of centerline, up to 31’ AGL/51’ MSL. Tree 3609’ from DER, 577’ left of centerline, 100’ AGL/104’ MSL. Rw 14, trees beginning 148’ from DER, left and right of centerline, up to 100’ AGL/114’ MSL. Rw 21, vehicles on roadway 262’ from DER, left and right of centerline, up to 15’ AGL/24’ MSL. Trees beginning 475’ from DER, 132’ right of centerline, up to 100’ AGL/104’ MSL. Boats beginning 506’ from DER, left and right of centerline, up to 77’ AGL/77’ MSL. Tower 2566’ from DER, 925’ left of centerline, 162’ AGL/172’ MSL. Rw 26, trees beginning 52’ from DER, 308’ left of centerline, up to 43’ AGL/49’ MSL. Building and trees beginning 131’ from DER, 417’ right of centerline, 18’ AGL/24’ MSL. Boats beginning 383’ from DER, left and right of centerline, up to 77’ AGL/77’ MSL. Rw 32, trees beginning 30’ from DER, 182’ left of centerline, up to 100’ AGL/104’ MSL. Trees beginning 30’ from DER, 419’ right of centerline, up to 100’ AGL/104’ MSL. Boats beginning 452’ from DER, left and right of centerline, up to 77’ AGL/77’ MSL.

BEAUFORT, SC
BEAUFORT COUNTY (ARW)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 03191 (FAA)
DEPARTURE PROCEDURE: Rw 7, climb runway heading to 1700 before turning right. Rw 25, climb runway heading to 300 before turning right.
TAKEOFF OBSTACLE NOTES: Rw 25, tree 1100’ from DER, 70’ left of centerline, 40’ AGL/50’ MSL. Power line 1000’ from DER, on centerline, 30’ AGL/ 35’ MSL.

BENNETTSVILLE, SC
MARLBORO COUNTY JETPORT-H E AVENT FIELD (BBP)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 10210 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 7, pole 97’ from DER, 379’ right of centerline, 35’ AGL/181’ MSL. Trees beginning 1415’ from DER, 412’ left of centerline, up to 86’ AGL/232’ MSL. Trees beginning 2495’ from DER, 256’ right of centerline, up to 89’ AGL/235’ MSL. Rw 25, tree 77’ from DER, 148’ right of centerline, 18’ AGL/156’ MSL. Trees beginning 2681’ from DER, 382’ right of centerline, up to 89’ AGL/227’ MSL.
TAKEOFF MINIMUMS (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

BURLETON, NC
BURLETON-ALAMANCE RGNL (BUY)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 14037 (FAA)
TAKEOFF MINIMUMS: Rwy 6, 300-3 or std. w/ min. climb of 285' per NM to 900.
DEPARTURE PROCEDURE: Rwy 6, climb heading 060° to 1500 before turning. Rwy 24, climb heading 240° to 1500 before turning.
TAKEOFF OBSTACLE NOTES: Rwy 6, trees, antenna, transmission towers, towers, tank and poles left and right of centerline beginning 158' from DER, 482' right of centerline up to 163' AGL/785' MSL. Rwy 24, trees, pole and runway 6 REILs left and right of centerline beginning 10' from DER, 125' left and right of centerline up to 100' AGL/676' MSL.

CAMDEN, SC
WOODWARD FIELD (CDN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 07298 (FAA)
TAKEOFF MINIMUMS: Rwy 6, 200-1 1/4 or std. w/ min. climb of 362' per NM to 700.
TAKEOFF OBSTACLE NOTES: Rwy 6, light 184' from DER, 500' right of centerline, 27' AGL/316' MSL. Trees beginning 867' from DER, 113' right of centerline, up to 83' AGL/373' MSL. Trees beginning 736' from DER, 256' left of centerline, up to 100' AGL/419' MSL. Water tank 5407' from DER, 1852' left of centerline, 168' AGL/487' MSL. Rwy 14, trees and terrain beginning 90' from DER, 68' left of centerline, up to 100' AGL/409' MSL. Trees and terrain beginning 159' from DER, 148' right of centerline, up to 100' AGL/409' MSL. Rwy 24, trees beginning 137' from DER, 413' right of centerline, up to 100' AGL/497' MSL. Trees beginning 234' from DER, 389' left of centerline, up to 100' AGL/347' MSL. Rwy 32, trees beginning 3059' from DER, 455' right of centerline, up to 100' AGL/449' MSL. Tree 5066' from DER, 858' left of centerline, 100' AGL/429' MSL.

CHARLESTON, SC
CHARLESTON AFB/INTL (CHS)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 7 11237 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 3, electrical equipment, towers, and trees beginning 98' from DER, 409' right of centerline, up to 104' AGL/136' MSL. Tree 2653' from DER, 993' left of centerline, 100' AGL/139' MSL. Rwy 15, trees beginning 1297' from DER, 772' left of centerline, up to 100' AGL/119' MSL. Rwy 33, trees beginning 2190' from DER, 1002' right of centerline, up to 100' AGL/139' MSL. Trees beginning 3061' from DER, 1284' left of centerline, up to 100' AGL/144' MSL.

CHARLESTON EXECUTIVE (JZI)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 16007 (FAA)
DEPARTURE PROCEDURE: Rwy 22, climb heading 217° to 600 before turning right.
TAKEOFF OBSTACLE NOTES: Rwy 4, trees beginning 2473' from DER, 530' left of centerline, up to 75' AGL/85' MSL. Rwy 9, antenna 110' from DER, 444' left of centerline, 39' AGL/47' MSL. Rwy 22, trees 502' from DER, 181' right of centerline, up to 100' AGL/109' MSL. Trees beginning 2183' from DER, left to right of centerline up to 100' AGL/109' MSL. Rwy 27, trees beginning 779' from DER, 84' left of centerline, up to 77' AGL/96' MSL. Pole 1011' from DER, 585' left of centerline, 42' AGL/61' MSL. Trees beginning 90' from DER, 273' right of centerline, up to 60' AGL/78' MSL.

TAKEOFF MINIMUMS (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)
CHARLOTTE, NC
CHARLOTTE/DOUGLAS INTL (CLT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 7A 181144 (FAA)
DEPARTURE PROCEDURE: Rwy 5, climb heading 055° to 1700 before turning right. Rwy 36C, climb heading 003° to 1400 before turning left. Rwy 36L, climb heading 003° to 1800 before turning left.
TAKEOFF OBSTACLE NOTES: Rwy 5, tree 810' from DER, 677' right of centerline, 768' MSL. Tree 1031' from DER, 665' left of centerline, 773' MSL. Tree 1050' from DER, 755' left of centerline, 787' MSL. Tree 1894' from DER, 854' left of centerline, 799' MSL. Trees beginning 2088' from DER, 877' left of centerline, up to 821' MSL. Trees beginning 2437' from DER, 971' left of centerline, up to 822' MSL. Tree 2582' from DER, 821' MSL. Trees beginning 2608' from DER, 73' left of centerline, up to 848' MSL. Tree 3977' from DER, 480' left of centerline, 856' MSL. Rwy 18C, field heading 11' from DER, 84' left of centerline, 4' AGL/695' MSL. Tree 555' from DER, 564' right of centerline, 711' MSL. Tree 1059' from DER, 762' right of centerline, 729' MSL. Trees beginning 1183' from DER, 608' left of centerline, up to 746' MSL. Trees beginning 1478' from DER, 276' left of centerline, up to 757' MSL. Tree 2035' from DER, 1025' left of centerline, 764' MSL. Trees beginning 2058' from DER, 182' right of centerline, up to 771' MSL. Tree 2723' from DER, 971' left of centerline, 773' MSL. Trees beginning 3245' from DER, 793' right of centerline, up to 792' MSL. Tree 4249' from DER, 1039' right of centerline, 805' MSL. Tree 5354' from DER, 1810' right of centerline, 831' MSL. Trees beginning 5551' from DER, 1412' right of centerline, up to 120' AGL/848' MSL. Rwy 18L, field heading 10' from DER, on centerline, 3' AGL/726' MSL. Pole 981' from DER, 708' left of centerline, 64' AGL/763' MSL. TWR and tree beginning 981' from DER, 689' right of centerline, up to 785' MSL. Tree 1235' from DER, 795' right of centerline, 767' MSL. Trees beginning 1457' from DER, 703' right of centerline, up to 777' MSL. Tree 2248' from DER, 815' right of centerline, 783' MSL. Tower 4408' from DER, 1505' left of centerline, 160' AGL/849' MSL. Rwy 18R, field heading 10' from DER, 4' left of centerline, 3' AGL/746' MSL. Grd 145' from DER, 522' left of centerline, 748' MSL. Rwy 23, MALSR 1' from DER, on centerline, 706' MSL. Control box 1' from DER, 136' right of centerline, 4' AGL/708' MSL. Tree 1270' from DER, 772' right of centerline, 742' MSL. Tree 1310' from DER, 771' right of centerline, 753' MSL. Tree 1477' from DER, 702' right of centerline, 757' MSL. Trees beginning 1573' from DER, 654' right of centerline, up to 750' MSL. Trees beginning 1728' from DER, 541' right of centerline, up to 762' MSL. Trees beginning 1814' from DER, 597' right of centerline, up to 775' MSL. Tree 1844' from DER, 805' right of centerline, 776' MSL. Trees beginning 1944' from DER, 697' right of centerline, up to 792' MSL. Trees beginning 2242' from DER, 361' right of centerline, up to 811' MSL.

CHARLOTTE, NC (CON’T)
CHARLOTTE/DOUGLAS INTL (CLT) (CON’T)
Rwy 36C, airfield It 4' from DER, 11' left of centerline, 1' AGL/743' MSL. Trees beginning 1246' from DER, 598' right of centerline, up to 822' MSL. Trees beginning 1937' from DER, 446' right of centerline, up to 823' MSL. Trees beginning 2045' from DER, 237' right of centerline, up to 827' MSL. Rwy 36L, airfield It 9' from DER, 1290' left of centerline, 2' AGL/745' MSL. Tree 1355' from DER, 544' left of centerline, 786' MSL. Rwy 36R, aprt sign 19' from DER, 289' right of centerline, 6' AGL/747' MSL. Trees beginning 470' from DER, 474' right of centerline, up to 767' MSL. Tree and railroad, beginning 640' from DER, 93' right of centerline, up to 775' MSL. Lt pole and tree beginning 837' from DER, 500' right of centerline, up to 777' MSL. Tree 943' from DER, 650' left of centerline, 771' MSL. Pole 1004' from DER, 739' left of centerline, 774' MSL. Trees beginning 1058' from DER, 346' right of centerline, up to 779' MSL. Pole 1191' from DER, 769' left of centerline, 778' MSL. Tree 1279' from DER, 625' right of centerline, 780' MSL. Tree 1295' from DER, 585' left of centerline, 782' MSL. Tree 1396' from DER, 646' right of centerline, 784' MSL. Trees beginning 1475' from DER, 1' left of centerline, up to 805' MSL. Tree 1612' from DER, 732' right of centerline, 787' MSL. Tree and pole beginning 1652' from DER, 718' right of centerline, up to 809' MSL. Trees beginning 1725' from DER, 557' right of centerline, up to 816' MSL. Trees beginning 1874' from DER, on centerline, up to 820' MSL. Tree 2053' from DER, 90' left of centerline, 823' MSL. Pole 2070' from DER, 446' right of centerline, 823' MSL. Tree 2457' from DER, 919' left of centerline, 830' MSL. Tower 3685' from DER, 1160' right of centerline, 70' AGL/844' MSL. Tree 3737' from DER, 392' left of centerline, 91' AGL/843' MSL. Tree 3756' from DER, 530' right of centerline, 846' MSL. Trees beginning 3759' from DER, 433' left of centerline, up to 851' MSL. Trees beginning 3774' from DER, 578' right of centerline, up to 852' MSL. Trees beginning 3803' from DER, 171' left of centerline, up to 863' MSL.

CHERAW, SC
CHERAW MUNI/LYNCH BELLINGER FIELD (CWV)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 070744 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 8, multiple trees 465' from DER, 176' right of centerline, up to 100' AGL/279' MSL. Power lines 845' from DER, 501' left of centerline, 65' AGL/243' MSL. Multiple trees 2407' from DER, 11' left of centerline, up to 100' AGL/279' MSL. Rwy 26, trees 1089' from DER, 213' left of centerline, up to 100' AGL/389' MSL. Trees 1467' from DER, 63' right of centerline, up to 100' AGL/379' MSL. Power lines 2066' from DER, 186' right of centerline, 65' AGL/243' MSL.
CHERRY POINT MCAS (CUNNINGHAM FLD) (KNKT)

CHERRY POINT, NC
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
16091
Rwys 5R, 14L, 23R, 32L: Diverse departures not authorized.
TAKEOFF OBSTACLE NOTES: Rw 14R: Pylon 3822’ from DER, 1424’ right of centerline, up 69’ MSL. Pylon 3980’ from DER, 1472’ right of centerline, up 69’ MSL.

CHESTER, SC
CHESTER CATAWBA RGNL (DCM)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 09015 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 5, trees beginning 383’ from DER, 180’ left of centerline up to 100’ AGL/719’ MSL. Rw 17, trees beginning 54’ from DER, 289’ left of centerline up to 100’ AGL/739’ MSL. Trees beginning 164’ from DER, 291’ right of centerline up to 100’ AGL/739’ MSL. Rw 23, trees beginning 163’ from DER, 379’ right of centerline up to 100’ AGL/729’ MSL. Trees beginning 3229’ from DER, 726’ left of centerline up to 100’ AGL/779’ MSL. Rw 35, vehicle on road 761’ from DER, 684’ left of centerline up to 100’ AGL/671’ MSL.

CLEMSON, SC
OCONEE COUNTY RGNL (CEU)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 11321 (FAA)
DEPARTURE PROCEDURE: Rw 25, climb heading 253° to 1900 before turning right.
TAKEOFF OBSTACLE NOTES: Rw 7, trees beginning 8’ from DER, 310’ left of centerline, up to 35’ AGL/909’ MSL. Trees beginning 87’ from DER, 93’ right of centerline, up to 100’ AGL/979’ MSL. Rw 25, trees beginning 109’ from DER, 6’ right of centerline, up to 100’ AGL/979’ MSL. Trees beginning 123’ from DER, 8’ left of centerline, up to 83’ AGL/971’ MSL. Multiple poles beginning 457’ from DER, left and right of centerline, up to 48’ AGL/936’ MSL.

CLINTON, NC
CLINTON-SAMPSON COUNTY (CTZ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 11125 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 6, trees 10’ from DER, 393’ right of centerline, up to 116’ AGL/245’ MSL. Trees 1306’ from DER, 9’ left of centerline, up to 100’ AGL/269’ MSL. Rw 24, trees 14’ from DER, 3’ right of centerline, up to 99’ AGL/188’ MSL. Tree 1718’ from DER, 891’ left of centerline, 100’ AGL/219’ MSL.

COLUMBIA, SC
COLUMBIA METROPOLITAN (CAE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 09239 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 5, trees beginning 127’ from DER, 128’ left of centerline, up to 97’ AGL/286’ MSL. Trees beginning 420’ from DER, 21’ right of centerline, up to 74’ AGL/283’ MSL. Rw 11, trees beginning 1896’ from DER, 621’ left of centerline, up to 48’ AGL/277’ MSL. Light pole and trees beginning 1043’ from DER, 723’ right of centerline, up to 69’ AGL/268’ MSL. Rw 23, trees 3573’ from DER, 1191’ right of centerline, up to 60’ AGL/329’ MSL. Rw 29, trees beginning 567’ from DER, 535’ left of centerline, up to 87’ AGL/286’ MSL. Trees beginning 1045’ from DER, 526’ right of centerline, up to 63’ AGL/332’ MSL.

JIM HAMILTON L B OWENS (CUB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 09323 (FAA)
TAKEOFF MINIMUMS: Rw 31, 600-2½ or std. with min. climb of 315’ per NM to 1500.
DEPARTURE PROCEDURE: Rw 31, climb heading 311° to 1500 before turning Northbound.
TAKEOFF OBSTACLE NOTES: Rw 13, trees beginning at DER, 138’ right of centerline, up to 23’ AGL/202’ MSL. Trees beginning 3’ from DER, 88’ right of centerline, up to 106’ AGL/255’ MSL. Trees beginning 131’ from DER, 84’ left of centerline, up to 97’ AGL/256’ MSL. Rw 31, trees beginning at DER, 437’ left of centerline, up to 23’ AGL/222’ MSL. Buildings beginning 632’ from DER, 260’ right of centerline, up to 372’ AGL/681’ MSL. Buildings beginning 1050’ from DER, 20’ left of centerline, up to 50’ AGL/252’ MSL. Tower 2.1 NM from DER, 3510’ right of centerline, 422’ AGL/747’ MSL.

CONCORD, NC
CONCORD-PADGETT RGNL (JQF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3A 19003 (FAA)
TAKEOFF MINIMUMS: Rw 20, 300-1¾ or std. w/min. climb of 204’ per NM to 1000, or alternatively, with standard takeoff minimums and a normal 200’ per NM climb gradient, takeoff must occur no later than 1200’ prior to DER.
DEPARTURE PROCEDURE: Rw 2, climb heading 016° to 2200 before proceeding on course. Rw 20, climbing right turn heading 290° to intersect CLT VOR/DME R-039 outbound to 2100 before proceeding on course.
TAKEOFF OBSTACLE NOTES: Rw 2, poles and trees beginning 2624’ from DER, 688’ left of centerline, up to 45’ AGL/784’ MSL. Trees beginning 2107’ from DER, 787’ right of centerline, up to 24’ AGL/733’ MSL. Rw 20, street lights beginning 3047’ from DER, 196’ right of centerline, up to 105’ AGL/744’ MSL. Trees 1.3 NM from DER, 1544’ right of centerline, up to 100’ AGL/849’ MSL.

CONWAY, SC
CONWAY-HORRY COUNTY (HYW)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 11237 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 4, trees beginning 58’ from DER, 393’ left of centerline, up to 108’ AGL/147’ MSL. Rw 22, trees beginning 184’ from DER, 184’ left of centerline, up to 86’ AGL/125’ MSL. Trees beginning 1508’ from DER, 212’ right of centerline, up to 73’ AGL/112’ MSL.
TAKEOFF MINIMUMS (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

CURRITUCK, NC
CURRITUCK COUNTY RGNL (ONX)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 09127 (FAA)
DEPARTURE PROCEDURE: Rwy 5, climb heading 045° to 1300 before proceeding on course. Rwy 23, climb heading 240° to 4000 before turning southbound.
TAKEOFF OBSTACLE NOTES: Rwy 5, trees beginning 41° from DER, 166' left of centerline, up to 100' AGL/122' MSL. Tree 4058' from DER, 388' right of centerline, 100' AGL/124' MSL. Rwy 23, trees beginning 60° from DER, 384' left of centerline, up to 100' AGL/115' MSL. Trees beginning 201° from DER, 427' right of centerline, up to 100' AGL/121' MSL.

DILLON, SC
DILLON COUNTY (DLC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 12208 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 5, multiple trees beginning 11° from DER, 241' left of centerline, up to 97' AGL/246' MSL. Multiple trees beginning 72' from DER, 29' right of centerline, up to 97' AGL/236' MSL. Rwy 23, antenna 18' from DER, 263' left of centerline, 9' AGL/194' MSL. Trees beginning 241' from DER, 394' left of centerline, up to 70' AGL/249' MSL. Tree 732' from DER, 427' right of centerline, 33' AGL/212' MSL.

EDENTON, NC
NORTHEASTERN RGNL (EDE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 09211 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 1, trees beginning 23° from DER, left and right of centerline, up to 100' AGL/171' MSL. Rwy 19, poles beginning 1038' from DER, 567' left of centerline, 37' AGL/47' MSL. Trees beginning 1258' from DER, left and right of centerline, up to 100' AGL/114' MSL.

ELIZABETH CITY, NC
ELIZABETH CITY CG AIR STATION/RGNL (ECG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 18144 (FAA)
DEPARTURE PROCEDURE: When tethered balloon located 2.6 NM south east of airport is flying: Rwy 1, climb on a heading between 194° CW 110° from DER. Rwy 10, climb on a heading between 234° CW 110° from DER. Rwy 19, climb on a heading between 160° CW 014° from DER. Rwy 28, climb on a heading between 170° CW 103° from DER.
TAKEOFF OBSTACLE NOTES: Rwy 1, pole 53' from DER, 314' right of centerline, 6' AGL/13' MSL. Traverse way 515' from DER, 572' right of centerline, 23' MSL. Trees beginning 1038' from DER, 660' left of centerline, 48' MSL. Trees beginning 1147' from DER, 641' left of centerline, up to 52' MSL. Trees beginning 1265' from DER, 765' left of centerline, up to 63' MSL. Rwy 10, building 7' from DER, 442' right of centerline, 16' MSL. Tree 108' from DER, 474' right of centerline, 66' AGL/72' MSL. Trees, traverse way beginning 201' from DER, 148' right of centerline, up to 80' MSL. NAVAID, traverse way beginning 292' from DER, 330' left of centerline, up to 24' MSL. Tree 939' from DER, 340' left of centerline, 35' MSL. Tree 2091' from DER, 485' left of centerline, 71' MSL. Tree 2139' from DER, 390' left of centerline, 79' MSL. Trees beginning 2185' from DER, 367' left of centerline, up to 82' MSL. Rwy 19, traverse way, vegetation, fence beginning 19' from DER, right of centerline, up to 25' MSL. Trees, building 1745' from DER, 931' left of centerline, 10' AGL/117' MSL. Trees beginning 1147' from DER, 567' left of centerline, 37' AGL/47' MSL. Trees beginning 1258' from DER, 513' left of centerline, up to 55' MSL. Spire, tree beginning 1745' from DER, 931' left of centerline, up to 65' MSL. Tree 1030' from DER, 660' left of centerline, 48' MSL. Tree 1259' from DER, 513' left of centerline, up to 55' MSL. Tree 1397' from DER, building between 170° CW 103° from DER.

TAKEOFF MINIMUMS (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)
ELIZABETHTOWN, NC
CURTIS L BROWN JR FIELD (EYF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 09183 (FAA)
DEPARTURE PROCEDURE: Rwy 15, climb heading 152° to 2100 before turning left. Rwy 33, climb heading 332° to 1100 before proceeding on course.
TAKEOFF OBSTACLE NOTES: Rwy 15, trees beginning 368' from DER, left and right of centerline, up to 100' AGL/214' MSL. Rwy 33, vehicle on road 549' right of centerline, 15' AGL/144' MSL. Trees beginning 344' from DER, left and right of centerline, up to 100' AGL/229' MSL.

ELKIN, NC
ELKIN MUNI (ZEF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 14317 (FAA)
DEPARTURE PROCEDURE: Rwy 7, climb heading 074° to 2000 before turning north. Rwy 25, climb heading 255° to 2600 before turning north.
TAKEOFF OBSTACLE NOTES: Rwy 7, trees beginning 2' from DER, 133' left of centerline, up to 61' AGL/1120' MSL. Trees beginning 10' from DER, 64° right of centerline, up to 15' AGL/1074' MSL. Trees beginning 665' from DER, 24° right of centerline, up to 50' AGL/1089' MSL. Trees beginning 931' from DER, 33° left of centerline, up to 93' AGL/1132' MSL. Trees beginning 1137' from DER, 277° from DER, 584° right of centerline, up to 78' AGL/297' MSL. Tower 1781' from DER, 452° right of centerline, 83' AGL/1082' MSL. Trees beginning 3265' from DER, 397° right of centerline, up to 100' AGL/1199' MSL. Tower 5075' from DER, 1290° left of centerline, 100' AGL/1179' MSL. Rwy 25, trees beginning 41' from DER, 125° left of centerline, up to 119' AGL/1138' MSL. Trees beginning 45° from DER, 92° right of centerline, up to 78' AGL/1137' MSL. Trees beginning 1217° from DER, 13° left of centerline, up to 99' AGL/1178' MSL. Trees beginning 1235° from DER, 55° right of centerline, up to 100' AGL/1219' MSL.

ENGELHARD, NC
HYDE COUNTY (7W6)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 19115 (FAA)
DEPARTURE PROCEDURE: Rwy 11, obtain ATC approval when requesting IFR clearance. Rwy 29, climb heading 289° to 500' before turning left.
TAKEOFF OBSTACLE NOTES: Rwy 11, trees beginning 687' from DER, left and right of centerline, up to 100' AGL/107' MSL. Rwy 29, trees beginning 1513° from DER, 807° right of centerline, up to 100' AGL/106' MSL. Trees beginning 1923' from DER, 956° left of centerline, up to 100' AGL/106' MSL. Trees beginning 2828' from DER, left and right of centerline, up to 100' AGL/106' MSL.

ERWIN, NC
HARNETT RGNL JETPORT (HRJ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 07242 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 5, multiple trees beginning 1529° from DER 16° left of centerline, up to 96' AGL/297' MSL. Multiple trees beginning 2775° from DER, 111° right of centerline, up to 76' AGL/282' MSL. Multiple poles beginning 303° from DER, 445° left of centerline, up to 17' AGL/239' MSL. Pole beginning 671° from DER, 610° right of centerline, up to 38' AGL/239' MSL. Rwy 23, trees beginning 94' from DER, 206° right of centerline, up to 64' AGL/252' MSL. Trees beginning 5° from DER, 296° right of centerline, up to 59' AGL/247' MSL.

FAYETTEVILLE, NC
FAYETTEVILLE RGNL/GRANNIS FIELD (FAY)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 08213 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 4, trees beginning 154° from DER, 117° right of centerline, up to 79' AGL/189' MSL. Trees beginning 344° from DER, 240° left of centerline, up to 63' AGL/173' MSL. Rwy 10, trees beginning 183° from DER, 295° right of centerline, up to 43' AGL/223' MSL. Trees beginning 451° from DER, 383° left of centerline, up to 62' AGL/242' MSL. Rwy 22, vehicle on road 98° from DER, left and right of centerline, up to 15' AGL/186' MSL. Trees beginning 1059° from DER, 551° right of centerline, up to 94' AGL/264' MSL. Rwy 28, pole and trees beginning 199° from DER, 307° left of centerline, up to 34' AGL/204' MSL. Trees beginning 593° from DER, 98° right of centerline, up to 79' AGL/239' MSL.

FLORENCE, SC
FLORENCE RGNL (FLO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 5 09071 (FAA)
DEPARTURE PROCEDURE: Rwy 1, climb on heading 021° to 1200 prior to turning left.
TAKEOFF OBSTACLE NOTES: Rwy 1, trees beginning 1929° from DER, 29° left of centerline up to 81' AGL/224' MSL. Trees beginning 1786° from DER, 239° right of centerline up to 89' AGL/232' MSL. Poles beginning 1628° from DER, 160° left and right of centerline up to 45' AGL/188' MSL. Antenna 341° from DER, 487° left of centerline up to 47' AGL/190' MSL. Floodlight 3262' from DER, 806° left of centerline up to 103' AGL/246' MSL. Floodlight 1488° from DER, 313° left of centerline up to 39' AGL/182' MSL. Rwy 9, trees beginning 3016° from DER, 635° left of centerline up to 91' AGL/212' MSL. Trees beginning 121° from DER, 14° right of centerline up to 97' AGL/218' MSL. Bushes beginning 32' from DER, 289° right of centerline up to 17' AGL/138' MSL. Rwy 19, trees beginning 174° from DER, 273° left of centerline up to 54' AGL/166' MSL. Trees beginning 811° from DER, 23° right of centerline up to 69' AGL/181' MSL. Bushes beginning 20° from DER, 338° right of centerline up to 12' AGL/125' MSL. Rwy 27, trees beginning 102° from DER, 389° left of centerline up to 30' AGL/159' MSL.
TAKEOFF MINIMUMS (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

FRANKLIN, NC
MACON COUNTY (1A5)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 09071 (FAA)
TAKEOFF MINIMUMS: Rwys 7, 25, Procedure NA at night. 5700-3, for climb in visual conditions.
DEPARTURE PROCEDURE: Rwys 7, 25, for climb in visual conditions remain within 3 NM of Macon County airport to cross airport south bound at or above 7600 via ODF R-349 to ODF VORTAC.
TAKEOFF OBSTACLE NOTES: Rw 7, trees 599' from DER, 124' left of centerline, up to 38' AGL/2037' MSL. Vehicle on road 964' from DER, 720' left of centerline, 15' AGL/2054' MSL. Trees beginning 1666' from DER, 433' left of centerline, up to 80' AGL/859' MSL. Trees 3819' from DER, 657' right of centerline, up to 126' AGL/885' MSL.

GASTONIA, NC
GASTONIA MUNI (AKH)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 6 15232 (FAA)
DEPARTURE PROCEDURE: Rw 3, climb heading 049° to 2700 before turning left. Rw 21, climb heading 214° to 1600 before proceeding north.
TAKEOFF OBSTACLE NOTES: Rw 3, trees beginning 162' from DER, 371' right of centerline, up to 105' AGL/844' MSL. Trees beginning 1200' from DER, 463' left of centerline, up to 76' AGL/835' MSL. Trees beginning 1965' from DER, 433' left of centerline, up to 80' AGL/859' MSL. Trees 3819' from DER, 657' right of centerline, up to 126' AGL/885' MSL. Rw 21, pole 254' from DER, 336' right of centerline, 20' AGL/810' MSL. Pole 288' from DER, 329' left of centerline, 18' AGL/808' MSL. Tower and trees beginning 297' from DER, 467' left of centerline, up to 93' AGL/872' MSL. Trees beginning 1245' from DER, 558' right of centerline, up to 99' AGL/878' MSL.

GEORGETOWN, SC
GEORGETOWN COUNTY (GGE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 14261 (FAA)
DEPARTURE PROCEDURE: Rw 29, climb heading 289° to 600 before turning northbound.
TAKEOFF OBSTACLE NOTES: Rw 5, trees beginning 382' from DER, left and right of centerline, up to 97' AGL/122' MSL. Rw 11, trees beginning 500' from DER, 200' left and right of centerline, up to 100' AGL/129' MSL. Rw 23, trees beginning 177' from DER, 441' right of centerline, up to 100' AGL/111' MSL. Trees 1023' from DER, 670' left of centerline, up to 68' AGL/88' MSL. Rw 29, trees beginning 880' from DER, left and right of centerline, up to 100' AGL/138' MSL.

GOLDSBORO, NC
WAYNE EXECUTIVE JETPORT (GWW)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 11321 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 5, tree 184' from DER, 494' right of centerline, 41' AGL/174' MSL. Rw 23, trees beginning 107' from DER, 313' right of centerline, up to 109' AGL/242' MSL. Bush 101' from DER, 487' left of centerline, 9' AGL/112' MSL. Trees beginning 2212' from DER, 12' left of centerline, up to 98' AGL/231' MSL.

GREENSBORO, NC
PIEDMONT TRIAD INTL (GSO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 09295 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 5L, trees beginning 1328' from DER, 524' left of centerline, up to 88' AGL/912' MSL. Rw 5R, terrain and trees beginning 3' from DER, 499' right of centerline, up to 102' AGL/981' MSL. Trees beginning 2751' from DER, 1191' left of centerline, 57' AGL/966' MSL. Rw 14, pole and railroad signal beginning 937' from DER, 604' right of centerline, up to 51' AGL/940' MSL. Rw 23L, trees beginning 834' from DER, 719' left of centerline, up to 65' AGL/934' MSL. Rw 23R, trees beginning 1195' from DER, 191' left of centerline, up to 100' AGL/970' MSL. Utility pole 170' from DER, 540' left of centerline, 33' AGL/936' MSL. Trees beginning 1715' from DER, 353' right of centerline, up to 100' AGL/967' MSL. Rw 32, trees beginning 1' from DER, 289' right of centerline up to 90' AGL/1019' MSL.
TAKEOFF MINIMUMS (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

GREENVILLE, NC
PITT-GREENVILLE (PGV)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 5 16035 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 2, ground beginning 50' from DER, 50' left of centerline, up to 31' AGL. Ground beginning 86' from DER, 291' right of centerline, up to 29' AGL. Trees beginning 975' from DER, 65' right of centerline, up to 86' AGL/124' MSL. Trees beginning 1779' from DER, 653' right of centerline, up to 96' AGL/125' MSL. Tree 1910' from DER, 989' left of centerline, up to 63' AGL/89' MSL. Trees beginning 2224' from DER, 655' right of centerline, up to 115' AGL/142' MSL. Trees beginning 2562' from DER, 583' left of centerline, up to 82' AGL/134' MSL. Trees beginning 3164' from DER, 719' left of centerline, up to 107' AGL/138' MSL. Rwy 8, building, poles, road and trees beginning 79' from DER, 298' left of centerline, up to 87' AGL/113' MSL. Trees and road beginning 144' from DER, 456' right of centerline, up to 44' AGL/66' MSL. Building, poles and trees beginning 795' from DER, 65' right of centerline, up to 59' AGL/71' MSL. Trees beginning 1009' from DER, 14' left of centerline, up to 90' AGL/119' MSL. Building, poles and trees beginning 1538' from DER, 279' right of centerline, up to 62' AGL/88' MSL. Trees beginning 2334' from DER, 307' right of centerline, up to 88' AGL/110' MSL. Trees beginning 2336' from DER, 7' left of centerline, up to 101' AGL/127' MSL. Trees beginning 3324' from DER, 646' right of centerline, up to 99' AGL/125' MSL. Rwy 10, runway lights 40' from DER, 148' right of centerline, 6' AGL/25' MSL. Runway lighting and sign beginning 40' from DER, 149' left of centerline, up to 5' AGL/25' MSL. Vehicles on road, bridge/overpass, and trees beginning 230' from DER, 245' left of centerline, up to 26' AGL/42' MSL. NAVAID 491' from DER, 280' right of centerline, 35' AGL/44' MSL. Trees beginning 1133' from DER, 745' left of centerline, up to 103' AGL/115' MSL. Trees beginning 1354' from DER, 751' right of centerline, up to 113' AGL/125' MSL. Transmission line towers and trees beginning 2412' from DER, crossing left to right of centerline, up to 112' AGL/122' MSL. Trees beginning 2673' from DER, crossing centerline, up to 100' AGL/151' MSL. Trees beginning 3009' from DER, 342' left of centerline, up to 102' AGL/162' MSL. Trees beginning 5002' from DER, 706' left of centerline, up to 93' AGL/164' MSL. Rwy 26, airport sign 40' from DER, 199' left of centerline, 4' AGL/26' MSL. Runway end identifier light, 41' from DER, 150' right of centerline, 2' AGL/26' MSL. Trees beginning 152' from DER, 354' right of centerline, up to 86' AGL/117' MSL. Trees beginning 336' from DER, 504' left of centerline, up to 25' AGL/38' MSL. Trees beginning 573' from DER, 229' left of centerline, up to 106' AGL/109' MSL. Trees beginning 1330' from DER, 170' left of centerline, up to 109' AGL/112' MSL. Trees beginning 1625' from DER, crossing centerline, up to 127' AGL/130' MSL. Trees beginning 2122' from DER, crossing centerline, up to 131' AGL/134' MSL.

GREENVILLE, SC
DONALDSON FIELD (GYH)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 15288 (FAA)
TAKEOFF MINIMUMS: Rwy 5, 300-1 ½ or std. w/min. climb of 220' per NM to 1300, or alternatively, w/ standard takeof minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1800' prior to DER.
TAKEOFF OBSTACLE NOTES: Rwy 5, fence 63' from DER, 457' right of centerline, 8' AGL/921' MSL. Trees beginning 874' from DER, 723' left of centerline, up to 67' AGL/976' MSL. Trees beginning 1088' from DER, 129' right of centerline, up to 82' AGL/998' MSL. Tower 1.5 NM from DER, 2224' left of centerline, 250' AGL/1167' MSL.

GREENVILLE DOWNTOWN (GMU)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 7 15288 (FAA)
TAKEOFF MINIMUMS: Rwy 10, 300-1 or std. w/min. climb of 355' per NM to 1300. Rwy 28, 300-2½ or std. w/min. climb of 220' per NM to 1500, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1900' prior to DER.
DEPARTURE PROCEDURE: Rwy 1, climb heading 006° to 2000 before turning west or northwest. Rwy 10, climb heading 096° to 1800 before turning west or northwest. Rwy 28, climb heading 276° to 2300 before turning north or northwest.
TAKEOFF OBSTACLE NOTES: Rwy 1, sign 26' from DER, 125' left of centerline, 3' AGL/1049' MSL. Building and poles beginning 195' from DER, 374' right of centerline, up to 48' AGL/1111' MSL. Trees beginning 350' from DER, 319' left of centerline, up to 88' AGL/1129' MSL. Sign, building, poles, and trees beginning 1050' from DER, 55' right of centerline, up to 52' AGL/1188' MSL. Buildings 4064' from DER, 384' right of centerline, up to 61' AGL/1174' MSL. Rwy 10, sign and trees beginning 18' from DER, 48' right of centerline, up to 31' AGL/1026' MSL. Sign 21' from DER, 124' left of centerline, 3' AGL/1017' MSL. Pole and trees beginning 9' from DER, 198' right of centerline, up to 56' AGL/1057' MSL. Trees beginning 498' from DER, 50' left of centerline, up to 51' AGL/1042' MSL. Trees beginning 1821' from DER, 603' left of centerline, up to 47' AGL/1068' MSL. Building and pole beginning 3337' from DER, 539' right of centerline, up to 105' AGL/1136' MSL. Tower 5213' from DER, 810' left of centerline, 152' AGL/1173' MSL. Rwy 19, signs beginning 11' from DER, 71' right of centerline, up to 3' AGL/991' MSL. Trees beginning 173' from DER, 492' right of centerline, up to 45' AGL/1013' MSL. Pole and trees beginning 276' from DER, 527' left of centerline, up to 33' AGL/1008' MSL. Trees beginning 2809' from DER, 763' right of centerline, up to 83' AGL/1094' MSL. Rwy 28, signs beginning 13' from DER, 77' left of centerline, up to 3' AGL/1000' MSL. Pole and trees beginning 45' from DER, 285' right of centerline, up to 49' AGL/1043' MSL. Poles and trees beginning 194' from DER, 251' left of centerline, up to 56' AGL/1021' MSL. Trees beginning 532' from DER, 60' right of centerline, up to 95' AGL/1047' MSL. Trees beginning 850' from DER, 323' left of centerline, up to 71' AGL/1075' MSL. Building 1.9 NM from DER, 2143' right of centerline, 332' AGL/1316' MSL.
**GREENWOOD, SC**
GREENWOOD COUNTY (GRD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 16315 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 5: Tree 387' from DER, 289' right of centerline, 100' AGL/629' MSL. Rwy 09: trees beginning 215' from DER, 493' left of centerline, up to 643' MSL. Tree 444' from DER, 554' left of centerline, 647' MSL. Trees beginning 568' from DER, 253' left of centerline, up to 651' MSL. Trees beginning 627' from DER, 545' right of centerline, up to 646' MSL. Trees beginning 780' from DER, 265' left of centerline, up to 663' MSL. Tree and pole beginning 899' from DER, 308' left of centerline, up to 668' MSL. Tree 2090' from DER, 1000' right of centerline, 109' AGL/719' MSL. Trees beginning 2562' from DER, 1031' left of centerline, 86' AGL/699' MSL. Trees beginning 2096' from DER, 512' left of centerline, up to 100' AGL/719' MSL. Trees beginning 3359' from DER, 546' right of centerline, 100' AGL/709' MSL. Trees beginning 3773' from DER, 550' right of centerline, up to 100' AGL/719' MSL.

**HARTSVILLE, SC**
HARTSVILLE RGNL (HVS)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 17229 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 3, buildings, tank beginning 5' from DER, 336' right of centerline, up to 368' MSL. Bushes, tree beginning 31' from DER, 127' left of centerline, up to 384' MSL. Pole, tank, building beginning 68' from DER, 380' right of centerline, up to 385' MSL. Bushes beginning 381' from DER, 501' left of centerline, up to 385' MSL. Trees beginning 410' from DER, 507' right of centerline, up to 430' MSL. Trees, poles, buildings beginning 541' from DER, 244' left of centerline, up to 444' MSL. Trees, poles beginning 541' from DER, 13' right of centerline, up to 432' MSL. Tree 786' from DER, 632' left of centerline, 462' MSL. Trees beginning 900' from DER, 11' left of centerline, up to 467' MSL. Trees, poles beginning 1042' from DER, 2' left of centerline, up to 471' MSL. Trees, poles beginning 1402' from DER, 3' right of centerline, up to 436' MSL. Trees beginning 2040' from DER, 616' right of centerline, up to 437' MSL. Trees beginning 2119' from DER, 6' right of centerline, up to 440' MSL. Trees beginning 2255' from DER, 97' right of centerline, up to 453' MSL. Trees beginning 2534' from DER, 13' right of centerline, up to 454' MSL. Trees, pole beginning 2662' from DER, 14' right of centerline, up to 459' MSL. Trees beginning 2756' from DER, 78' left of centerline, up to 473' MSL. Trees beginning 3076' from DER, 655' left of centerline, up to 475' MSL. Trees, pole beginning 3102' from DER, 16' left of centerline, up to 478' MSL. Trees beginning 3200' from DER, 27' right of centerline, up to 465' MSL. Trees beginning 3456' from DER, 758' right of centerline, up to 468' MSL. Trees beginning 3532' from DER, 12' left of centerline, up to 480' MSL. Trees beginning 3532' from DER, 652' right of centerline, up to 469' MSL. Trees beginning 3580' from DER, 197' right of centerline, up to 471' MSL. Trees beginning 3619' from DER, 490' right of centerline, up to 473' MSL. Trees beginning 3625' from DER, 103' right of centerline, up to 480' MSL. Trees beginning 3720' from DER, 103' right of centerline, up to 483' MSL. Trees, transmission tower beginning 4249' from DER, 95' left of centerline, up to 495' MSL. Trees beginning 4139' from DER, 251' right of centerline, up to 495' MSL. Trees, pole beginning 4023' from DER, 204' right of centerline, up to 493' MSL. Trees beginning 4319' from DER, 251' right of centerline, up to 495' MSL. Trees, transmission tower beginning 4249' from DER, 95' left of centerline, up to 495' MSL. Rwy 21, trees beginning 21' from DER, 459' left of centerline, up to 402' MSL. Buildings beginning 95' from DER, 440' right of centerline, up to 360' MSL. Pole, building, tree beginning 263' from DER, 410' right of centerline, up to 365' MSL.
TAKEOFF MINIMUMS (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

HATTERAS, NC
BILLY MITCHELL (HSE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 09267 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 7, trees beginning 388' from DER, left of centerline, up to 100' AGL/169' MSL. Rwy 25, trees 512' from DER, 103' right of centerline, 100' AGL/110' MSL. Boat mast 2107' from DER, 664' left of centerline, 100' AGL/100' MSL.

HICKORY, NC
HICKORY RGNL (HKY)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4  11237  (FAA)
DEPARTURE PROCEDURE: Use HICKORY DEPARTURE.

HILTON HEAD ISLAND, SC
HILTON HEAD (HXD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1  17341 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 3, electrical system 5' from DER, 103' left of centerline, 4' AGL/16' MSL. Tree, fence beginning 56' from DER, 294' right of centerline, up to 81' MSL. Tree, terrain, building, traverse way, pole beginning 93' from DER, 5' left of centerline, up to 101' AGL/116' MSL. Tree, fence beginning 177' from DER, 293' right of centerline, up to 87' MSL. Tree, fence, building beginning 352' from DER, 6' right of centerline, up to 87' AGL/98' MSL. Trees beginning 3082' from DER, 106' right of centerline, up to 82' AGL/99' MSL. Trees beginning 3239' from DER, 279' right of centerline, up to 85' AGL/102' MSL. Tree 3295' from DER, 286' right of centerline, 91' AGL/107' MSL. Trees beginning 3323' from DER, 299' right of centerline, up to 95' AGL/112' MSL. Trees beginning 3359' from DER, 318' right of centerline, up to 97' AGL/113' MSL. Rwy 21, tree 4' from DER, 336' right of centerline, 103' MSL. Tree, fence, pole beginning 8' from DER, 297' left of centerline, up to 73' MSL. Tree, building, pole beginning 93' from DER, 1' right of centerline, up to 91' AGL/110' MSL. Tree 190' from DER, 468' left of centerline, 60' AGL/76' MSL. Tree, NAVAID, building beginning 312' from DER, 260' left of centerline, up to 69' AGL/85' MSL. Trees beginning 662' from DER, 455' left of centerline, up to 96' MSL. Trees beginning 771' from DER, 292' left of centerline, up to 101' MSL. Tree 1144' from DER, 675' left of centerline, 105' AGL/116' MSL. Tree, pole beginning 1222' from DER, 3' left of centerline, up to 109' AGL/120' MSL. Trees beginning 2489' from DER, 10' right of centerline, up to 111' MSL. Trees beginning 2695' from DER, 0' right of centerline, up to 113' MSL. Trees beginning 2859' from DER, 25' right of centerline, up to 117' MSL. Trees beginning 2942' from DER, 66' right of centerline, up to 118' MSL. Trees beginning 3027' from DER, 2' right of centerline, up to 106' AGL/119' MSL.

JACKSONVILLE, NC
ALBERT J ELLIS (OAJ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2  12264 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 5, vehicles on road 93' from DER, left and right of centerline, up to 15' AGL/107' MSL. Pole 1319' from DER, 830' left of centerline, 44' AGL/127' MSL. Trees beginning 1678' from DER, left and right of centerline up to 100' AGL/198' MSL. Rwy 23, vehicles on road 233' from DER, 221' left of centerline, up to 15' AGL/107' MSL. Trees beginning 2091' from DER, left and right of centerline, up to 100' AGL/192' MSL.

JEFFERSON, NC
ASHE COUNTY (GEV)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1  17117 (FAA)
TAKEOFF MINIMUMS: Rwy 28, 700-3 w/min. climb of 425' per NM to 5500 or standard w/min. climb of 750' per NM to 4900 or 2200-3 for climb in visual conditions. DEPARTURE PROCEDURE: Rwy 10, climb heading 096° to 4400 before proceeding on course. Rwy 28, climb heading 276° to 6100 before proceeding on course. VCOA: Rwy 28, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Ashe County Airport at or above 5200 before proceeding on course.
TAKEOFF OBSTACLE NOTES: Rwy 10, NAVID, runway light, and bush beginning 8' from DER, 17° right of centerline, up to 3' AGL/3088' MSL. NAVID, runway light, and bush beginning 8' from DER, 17° left of centerline, up to 4' AGL/3089' MSL. Trees beginning 344' from DER, 231' right of centerline, up to 3109' MSL. Trees beginning 369' from DER, 236' right of centerline, up to 3114' MSL. Rwy 28, terrain, antenna, runway light, and tree beginning 23' from DER, 6' left of centerline, up to 3250' MSL. Terrain 25' from DER, 176' right of centerline, 3183' MSL. Terrain, runway light, building, agricultural equipment, and tree beginning 100' from DER, 22' right of centerline, up to 3241' MSL. Trees beginning 1091' from DER, 6' right of centerline, up to 3306' MSL. Trees beginning 6071' from DER, 1669' right of centerline, up to 3422' MSL. Tree 1.0 NM from DER, 1990' right of centerline, 3490' MSL. Trees beginning 1.0 NM from DER, 1487' right of centerline, up to 3497' MSL. Trees beginning 1.0 NM from DER, 1330' right of centerline, up to 3564' MSL. Trees beginning 1.0 NM from DER, 1599' right of centerline, up to 3644' MSL. Trees beginning 1 NM from DER, 1185' right of centerline, up to 3731' MSL. Pole and trees beginning 1.1 NM from DER, 513' right of centerline, up to 3831' MSL. Tree 2.5 NM from DER, 1194' right of centerline, 3597' MSL.

TAKEOFF MINIMUMS (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)
KILL DEVIL HILLS, NC
DUNNLIN COUNTY (DPL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 18312 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 5, trees beginning 134' from DER, 501' left of centerline, up to 180' MSL. Tree 194' from DER, 516' right of centerline, 175' MSL. Tree 408' from DER, 525' right of centerline, 187' MSL. Trees beginning 1092' from DER, 579' right of centerline, up to 215' MSL. Rwy 23, trees beginning 100' from DER, 491' left of centerline, up to 174' MSL. Tree 115' from DER, 490' right of centerline, 169' MSL. Tree 180' from DER, 504' right of centerline, 191' MSL. Tree 387' from DER, 538' right of centerline, 208' MSL. Trees beginning 588' from DER, 581' right of centerline, up to 210' MSL. Trees beginning 684' from DER, 642' left of centerline, up to 197' MSL. Trees beginning 1089' from DER, 635' right of centerline, up to 211' MSL. Trees beginning 1314' from DER, 749' left of centerline, up to 198' MSL.

KINGSTREE, SC
WILLIAMSBURG RGNL (CKI)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 17229 (FAA)
TAKEOFF MINIMUMS: Rwy 14, 400-2¾ or std. w/ min. climb of 210'/NM to 500.
DEPARTURE PROCEDURE: Rwy 14, climb heading 140° to 700 before turning north.
TAKEOFF OBSTACLE NOTES: Rwy 14, tree 23' from DER, 159' right of centerline, 6' AGL/66' MSL. Parking lot beginning 199' from DER, 478' left of centerline, up to 77' MSL. Building 359' from DER, 578' left of centerline, 81' MSL. Tree, pole beginning 880' from DER, 473' left of centerline, up to 142' MSL. Trees beginning 1083' from DER, 548' right of centerline, up to 130' MSL. Trees beginning 1181' from DER, 680' left of centerline, up to 145' MSL. Trees beginning 1574' from DER, 631' left of centerline, up to 152' MSL. Trees beginning 1918' from DER, 590' right of centerline, up to 138' MSL. Trees beginning 2175' from DER, 633' right of centerline, up to 142' MSL. Trees beginning 2701' from DER, 874' right of centerline, up to 151' MSL. Trees beginning 2896' from DER, 551' left of centerline, up to 159' MSL. Tree 3483' from DER, 1366' right of centerline, 160' MSL. Trees beginning 3483' from DER, 597' right of centerline, up to 163' MSL. Tree 3805' from DER, 596' right of centerline, 165' MSL. Tower 2.2 NM from DER, 2801' right of centerline, 330' AGL/404' MSL. Rwy 32, trees beginning 62' from DER, 325' left of centerline, up to 107' MSL. Trees beginning 126' from DER, 507' right of centerline, up to 86' AGL/150' MSL. Trees beginning 140' from DER, 427' left of centerline, up to 123' MSL. Tree 1024' from DER, 733' left of centerline, 43' MSL. Trees beginning 1138' from DER, 634' left of centerline, up to 147' MSL. Trees beginning 1249' from DER, 723' right of centerline, up to 158' MSL. Trees beginning 1472' from DER, 614' right of centerline, up to 162' MSL. Trees beginning 1877' from DER, 621' left of centerline, up to 146' MSL. Trees beginning 2328' from DER, 580' left of centerline, up to 153' MSL. Trees beginning 2541' from DER, 572' left of centerline, up to 155' MSL. Tree 3442' from DER, 1019' left of centerline, 157' MSL.
KINSTON, NC
KINSTON RGNL JETPORT AT STALLINGS FIELD (ISO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 07298 (FAA)
DEPARTURE PROCEDURE: Rwy 5, climb heading 050° to 1800 before turning east.
TAKEOFF OBSTACLE NOTES: Rwy 5, multiple poles 1,521' from DER, 237' right of centerline, up to 64' AGL/137' MSL. Pole 1625' from DER, 53' left of centerline, 52' AGL/128' MSL. Multiple trees 1873' from DER, 110' right of centerline, up to 73' AGL/173' MSL.

LAKE CITY, SC
LAKE CITY MUNI CJ EVANS FIELD (51J)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 07074 (FAA)
TAKEOFF MINIMUMS: Rwy 1, 500-2½ or std. w/ min. climb of 375' per NM to 700. Rwy 19, 300-1 or std. w/ min. climb of 404' per NM to 400.
TAKEOFF OBSTACLE NOTES: Rwy 1, tree 1474' from DER, 189' right of centerline, 62' AGL/143' MSL. Multiple towers beginning 1.6 NM from DER, 1285' left of centerline, up to 411' AGL/491' MSL. Rwy 19, tree 1428' from DER, 225' right of centerline, 53' AGL/134' MSL. Tank 4906' from DER, 1349' left of centerline, 180' AGL/254' MSL.

LANCASTER, SC
LANCASTER COUNTY- MCWHIRTER FIELD (LKR)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 15232 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 6, trees and bushes beginning 72' from DER, 298' right of centerline, up to 68' AGL/787' MSL. Vehicles on roadway, poles and trees beginning 929' from DER, 5' left of centerline, up to 120' AGL/789' MSL. Rising terrain and trees beginning 944' from DER, 1' right of centerline, up to 106' AGL/777' MSL. Vehicles on roadway beginning 955' from DER, left and right of centerline up to 15' AGL/734' MSL. Building 1013' from DER, 662' right of centerline, 18' AGL/729' MSL. Fence beginning 1051' from DER, 434' right of centerline, 2' AGL/723' MSL. Rwy 26, trees beginning 104' from DER, 470' right of centerline, up to 128' AGL/799' MSL. Trees beginning 580' from DER, 109' left of centerline, up to 117' AGL/766' MSL. Trees beginning 915' from DER, 113' right of centerline, up to 110' AGL/768' MSL.

LAURENS, SC
LAURENS COUNTY (LUX)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 13122 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 8, trees and bushes beginning 72' from DER, 298' right of centerline, up to 68' AGL/787' MSL. Vehicles on roadway, poles and trees beginning 929' from DER, 5' left of centerline, up to 120' AGL/789' MSL. Rising terrain and trees beginning 944' from DER, 1' right of centerline, up to 106' AGL/777' MSL. Vehicles on roadway beginning 955' from DER, left and right of centerline up to 15' AGL/734' MSL. Building 1013' from DER, 662' right of centerline, 18' AGL/729' MSL. Fence beginning 1051' from DER, 434' right of centerline, 2' AGL/723' MSL. Rwy 26, trees beginning 104' from DER, 470' right of centerline, up to 128' AGL/799' MSL. Trees beginning 580' from DER, 109' left of centerline, up to 117' AGL/766' MSL. Trees beginning 915' from DER, 113' right of centerline, up to 110' AGL/768' MSL.

LEXINGTON, NC
DAVIDSON COUNTY (EXX)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 12208 (FAA)
TAKEOFF MINIMUMS: Rwy 6, 300-1 or std. w/min. climb of 384' per NM to 1000.
TAKEOFF OBSTACLE NOTES: Rwy 6, trees beginning 917' from DER, 34' right of centerline, up to 100' AGL/856' MSL. Trees beginning 158' from DER, 8' left of centerline, up to 100' AGL/859' MSL. Tanks 1520' from DER, 121' left of centerline, up to 110' AGL/755' MSL. Rwy 24, tree 53' from DER, 472' left of centerline, 100' AGL/774' MSL. Terrain beginning 150' from DER, 223' right of centerline, 754' MSL.
**LIBERTY, NC**

**CAUSEY (2A5)**

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 97254 (FAA)

TAKEOFF MINIMUMS: Rwys 2, 20, 300-1.

DEPARTURE PROCEDURE: Rwy 20, for departures 245° CW 020°, climbing left turn direct LIB VORTAC, then proceed outbound via LIB R-256 to 3000 before proceeding on course.

**LINCOLNTON, NC**

**LINCOLNTON COUNTY RGNL (IPJ)**

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 15232 (FAA)

DEPARTURE PROCEDURE: Rw y 5, climb heading 063° to 2000 before proceeding on course. Rw y 23, climb heading 243° to 2800 before turning left.

TAKEOFF OBSTACLE NOTES: Rw y 5, trees beginning 1913’ from DER, 330’ left of centerline, up to 75’ AGL/954’ MSL. Rw y 23, trees beginning 2068’ from DER, 479’ right of centerline, up to 102’ AGL/1001’ MSL. Trees 2572’ from DER, 42’ left of centerline, up to 87’ AGL/986’ MSL. Trees 5326’ from DER, 1643’ right of centerline, up to 88’ AGL/1027’ MSL.

**LORIS, SC**

**TWIN CITY (5J9)**

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 10126 (FAA)

TAKEOFF OBSTACLE NOTES: Rw y 8, vehicles on roadway 18’ from DER, 127’ right of centerline, up to 15’ AGL/119’ MSL. Trees beginning 159’ from DER, 208’ right of centerline, up to 100’ AGL/204’ MSL. Trees beginning 169’ from DER, 314’ left of centerline, up to 100’ AGL/204’ MSL. Rw y 26, vehicles on roadway 9’ from DER, 113’ left of centerline, up to 15’ AGL/119’ MSL. Trees beginning 20’ from DER, 182’ left of centerline, up to 100’ AGL/204’ MSL. Hangar 81’ from DER, 267’ right of centerline, 50’ AGL/154’ MSL. Aircraft 87’ from DER, 171’ right of centerline, up to 30’ AGL/134’ MSL. Building 685’ from DER, 139’ left of centerline, 30’ AGL/134’ MSL. Building 1359’ from DER, 226’ right of centerline, 30’ AGL/134’ MSL.

**LOUISIBURG, NC**

**TRIANGLE NORTH EXECUTIVE (LHZ)**

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 11293 (FAA)

DEPARTURE PROCEDURE: Rw y 5, climb heading 046° to 1900 before turning right.

TAKEOFF OBSTACLE NOTES: Rw y 5, trees beginning 154’ from DER, 516’ right of centerline, up to 99’ AGL/399’ MSL. Trees beginning 166’ from DER, 492’ left of centerline, up to 75’ AGL/415’ MSL. Terrain 471’ from DER, 394’ left of centerline, 345’ MSL. Rw y 23, vehicle on road 98’ from DER, 457’ right of centerline, up to 15’ AGL/377’ MSL. Power line 760’ from DER, 635’ right of centerline, 55’ AGL/405’ MSL.

**LUMBERTON, NC**

**LUMBERTON RGNL (LBT)**

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 14289 (FAA)

TAKEOFF MINIMUMS: Rw y 31, 300-1 or std. w/min. climb of 250’ per NM to 400 or alternatively, with standard takeoff minimums and a normal 200’ per NM climb gradient, takeoff must occur no later than 2000’ prior to DER.

TAKEOFF OBSTACLE NOTES: Rw y 5, utility 29’ from DER, 117’ left of centerline, 3’ AGL/124’ MSL. Trees beginning 93’ from DER, 335’ right of centerline, up to 55’ AGL/180’ MSL. Trees beginning 1780’ from DER, left and right of centerline, up to 93’ AGL/219’ MSL. Rw y 13, vehicles on roadway beginning 29’ from DER, 392’ right of centerline, up to 15’ AGL/139’ MSL. Trees beginning 486’ from DER, left and right of centerline, up to 100’ AGL/219’ MSL. Rw y 23, trees beginning 59’ from DER, 119’ right of centerline, up to 107’ AGL/233’ MSL. Trees beginning 3274’ from DER, 31’ left of centerline, up to 91’ AGL/217’ MSL. Rw y 31, vehicles on roadway beginning 258’ from DER, 532’ left of centerline, up to 15’ AGL/139’ MSL. Building 510’ from DER, 612’ left of centerline, 40’ AGL/164’ MSL. Trees beginning 436’ from DER, left and right of centerline, up to 100’ AGL/224’ MSL. Tower 5168’ from DER, 1713’ right of centerline, 150’ AGL/286’ MSL.

**MANNING, SC**

**SANTEE COOPER RGNL (MNI)**

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 09043 (FAA)

TAKEOFF OBSTACLE NOTES: Rw y 2, trees beginning at DER, 480’ right of centerline, up to 100’ AGL/229’ MSL. Trees beginning 16’ from DER, 25’ left of centerline, up to 100’ AGL/209’ MSL. Vehicle on road 85’ from DER, 468’ right of centerline, 15’ AGL/117’ MSL. Rw y 20, trees beginning 125’ from DER, 289’ right of centerline, up to 100’ AGL/179’ MSL. Trees beginning 86’ from DER, 136’ left of centerline, up to 100’ AGL/189’ MSL. Vehicle on road 250’ from DER, on centerline, 15’ AGL/110’ MSL.

**MANTEO, NC**

**DARE COUNTY RGNL (MQI)**

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 11349 (FAA)

TAKEOFF MINIMUMS: Rw y 17, 300-1½ or std. w/min. climb of 250’ per N to 300. Rw y 35, 300-1½ or std. w/min. climb of 260’ per NM to 300.

TAKEOFF OBSTACLE NOTES: Rw y 5, multiple trees beginning 585’ from DER, 417’ left and right of centerline, up to 100’ AGL/109’ MSL. Rw y 35, multiple trees beginning 23’ from DER, 182’ right and left of centerline, up to 100’ AGL/116’ MSL. Building 267’ from DER, 410’ right of centerline, 20’ AGL/35’ MSL. Ship 1 NM from DER, on centerline, 208’ AGL/208’ MSL.
MARION, SC
MARION COUNTY (MAO)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 2 14317 (FAA)
DEPARTURE PROCEDURE: Rw 4, climb on heading 058° to 2000' before turning.
TAKEOFF OBSTACLE NOTES: Rw 4, road with vehicle 89' from DER, 241' left of centerline, 15' AGL/103' MSL. Trees and bushes beginning 8' from DER, 301' left of centerline, up to 15' AGL/92' MSL. Buildings beginning 271' from DER, 385' left of centerline up to 25' AGL/114' MSL. Trees and poles beginning 227' from DER, 401' left of centerline, up to 51' AGL/140' MSL. Trees beginning 1311' from DER, 411' left of centerline, up to 107' AGL/201' MSL. Trees and bushes beginning 14' from DER, 258' right of centerline, up to 67' AGL/154' MSL. Trees, buildings, and poles beginning 51' from DER, 216' right of centerline, up to 125' AGL/214' MSL. Trees beginning 2026' from DER, 7' right of centerline, up to 91' AGL/188' MSL. Rw 22, road with vehicle 96' from DER, 489' left of centerline, 15' AGL/104' MSL. Trees beginning 226' from DER, 302' left of centerline, up to 48' AGL/136' MSL. Trees beginning 1019' from DER, 372' left of centerline, up to 47' AGL/135' MSL. Bush 4' from DER, 354' right of centerline, 12' AGL/101' MSL. Trees beginning 1311' from DER, 413' left of centerline up to 25' AGL/114' MSL. Trees and poles beginning 511' from DER, 216' right of centerline, up to 67' AGL/154' MSL. Trees beginning 1014' from DER, 58' left of centerline, beginning 2207' out to 4124' from DER, 232' to 905' right of centerline, 0' AGL/377' MSL up to 399' MSL. Rw 14, Multiple trees left of centerline, beginning 2316' out to 4208' from DER, 774' to 1107' left of centerline, 0' AGL/325' MSL up to 359' MSL. Pylon 3282' from DER, 1553' left of centerline, 79' AGL/288' MSL. Multiple trees right of centerline, beginning 2202' out to 3374' from DER, 988' to 1139' right of centerline, 0' AGL/339' MSL up to 349' MSL. Aircraft parked 42' from DER, 544' right of centerline, 0' AGL/255' MSL. Pylon 2668' from DER, 1714' right of centerline, 79' AGL/286' MSL. Rw 23, Multiple trees left of centerline, beginning 2482' out to 3574' from DER, 186' to 1423' left of centerline, 130' AGL/351' MSL up to 363' MSL. Wind sensor 500' from DER, 495' left of centerline, 33' AGL/275' MSL. Multiple trees right of centerline, beginning 2470' out to 3968' from DER, 419' to 1200' right of centerline, 0' AGL/343' MSL up to 367' MSL. Light pole 2172' from DER, 615' to 791' right of centerline, 26' AGL/274' MSL. Rw 32, Multiple trees left of centerline, beginning 2267' out to 5053' from DER, 68' to 1650' left of centerline, 0' AGL/335' MSL up to 381' MSL. Multiple trees right of centerline, beginning 1774' out to 2207' from DER, 475' to 820' right of centerline, 0' AGL/343' MSL up to 355' MSL.

MAXTON, NC
LAURINBURG-MAXTON (MEB)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 07298 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 5, road 606' from DER, on centerline, 15' AGL/224' MSL. Trees 1002' from DER, 474' left of centerline, 67' AGL/267' MSL. Rw 13, aircraft 762' from DER, 762' left of centerline, 58' AGL/266' MSL. Rw 23, tree 1011' from DER, 512' right of centerline, 30' AGL/246' MSL. Rw 31, trees beginning 1014' from DER, 58' left of centerline, up to 54' AGL/271' MSL.

MC ENTIRE JNGB (MMT)
EASTOVER, SC
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 2 14149
TAKEOFF MINIMUMS: Rw 5, Standard with CG of 310 ft/NM to 2700 or 300-2 with min climb of 250 ft/NM to 2700 (Provided a ceiling and visibility to see and avoid a 40:1 penetration within the ICA (extended) and a climb gradient to avoid a 40:1 penetration outside the ICA (extended)). Rw 32, Standard with CG of 230' to 2700.
DEPARTURE PROCEDURE: Rw 5, depart on a track of 050 to 2700' before turning on course, or as directed by ATC. Rw 32, depart on a track of 320 to 700' MSL before turning on course, or as directed by ATC. Departing eastbound, complete turn within 4 NM to avoid R-6001, if unable, advise Control Tower prior to taxi.

TAKEOFF OBSTACLE NOTES: Rw 5, Helicopters parked from 198' to 552' from DER.306' to 618' left of centerline, up to 19' AGL/274' MSL. Multiple trees left of centerline, beginning 2390' out to 1.5 NM from DER, 93' to 2082' left of centerline, 0' AGL/385' MSL up to 551' MSL. Multiple trees right of centerline, beginning 2207' out to 4124' from DER, 232' to 905' right of centerline, 0' AGL/377' MSL up to 399' MSL. Rw 14, Multiple trees left of centerline, beginning 2316' out to 4208' from DER, 774' to 1107' left of centerline, 0' AGL/325' MSL up to 359' MSL. Pylon 3282' from DER, 1553' left of centerline, 79' AGL/288' MSL. Multiple trees right of centerline, beginning 2202' out to 3374' from DER, 988' to 1139' right of centerline, 0' AGL/339' MSL up to 349' MSL. Aircraft parked 42' from DER, 544' right of centerline, 0' AGL/255' MSL. Pylon 2668' from DER, 1714' right of centerline, 79' AGL/286' MSL. Rw 23, Multiple trees left of centerline, beginning 2482' out to 3574' from DER, 186' to 1423' left of centerline, 130' AGL/351' MSL up to 363' MSL. Wind sensor 500' from DER, 495' left of centerline, 33' AGL/275' MSL. Multiple trees right of centerline, beginning 2470' out to 3968' from DER, 419' to 1200' right of centerline, 0' AGL/343' MSL up to 367' MSL. Light pole 2172' from DER, 615' to 1200' right of centerline, 0' AGL/343' MSL up to 367' MSL. Columns 500' from DER, 419' to 1200' right of centerline, 0' AGL/343' MSL up to 367' MSL. Light pole 2172' from DER, 615' to 1200' right of centerline, 0' AGL/343' MSL up to 367' MSL. Multiple trees right of centerline, beginning 1774' out to 2207' from DER, 475' to 820' right of centerline, 0' AGL/343' MSL up to 355' MSL.

MOCKSVILLE, NC
TWIN LAKES (8A7)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 07214 (FAA)
TAKEOFF MINIMUMS: Rw 27, 300-1
TAKEOFF OBSTACLE NOTES: Rw 9, numerous trees beginning 35' from DER, 27' right of centerline, up to 100' AGL/939' MSL. Numerous trees beginning 200' from DER, 164' left of centerline, up to 100' AGL/919' MSL. Rw 27, numerous trees beginning 200' from DER, 78' right of centerline, up to 100' AGL/929' MSL. Numerous trees beginning 616' from DER, 77' left of centerline, up to 100' AGL/909' MSL.
MONCKS CORNER, SC
BERKELEY COUNTY (MKS)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 09015 (FAA)
TAKEOFF MINIMUMS: Rwy 5, 300-1/4 or std. w/ min. climb of 215’ per NM to 400.
TAKEOFF OBSTACLE NOTES: Rwy 5, trees beginning 17’ from DER, 102’ right of centerline, up to 99’ AGL/158’ MSL. Terrain 30’ from DER, 478’ left of centerline, 79’ MSL. Trees beginning 964’ from DER, 66’ left of centerline, up to 108’ AGL/167’ MSL. Poles beginning 467’ from DER, 480’ left of centerline, up to 24’ AGL/103’ MSL. Tower 1.4 NM from DER, 530’ left of centerline, 76’ MSL. Trees beginning 964’ from DER, 66’ left of centerline, up to 24’ AGL/163’ MSL. Transmission pole 1.4 NM from DER, 530’ left of centerline, up to 268’ AGL/292’ MSL.

MONROE, NC
CHARLOTTE-MONROE EXECUTIVE (EQY)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 15232 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 5, trees beginning 24’ from DER, 308’ right of centerline, up to 77’ AGL/736’ MSL. Trees beginning 70’ from DER, 218’ left of centerline, up to 27’ AGL/686’ MSL. Trees beginning 606’ from DER, 58’ right of centerline, up to 33’ AGL/692’ MSL. Poles and trees beginning 651’ from DER, 19’ left of centerline, up to 44’ AGL/713’ MSL. Trees beginning 1223’ from DER, 436’ right of centerline, up to 62’ AGL/721’ MSL. Trees beginning 2151’ from DER, 79’ left of centerline, up to 89’ AGL/748’ MSL. Rwy 23, runway light 12’ from DER, 31’ left of centerline, 2’ AGL/684’ MSL. Trees beginning 1714’ from DER, 203’ left of centerline, up to 97’ AGL/746’ MSL. Trees beginning 2366’ from DER, 771’ right of centerline, up to 86’ AGL/755’ MSL.

MOORESVILLE, NC
LAKE NORMAN AIRPARK (14A)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 06327 (FAA)
TAKEOFF MINIMUMS: Rwy 14, std. w/ min. climb of 294’ per NM to 2900 or 1300-2½ for climb in visual conditions.
DEPARTURE PROCEDURE: Rwy 14, for climb in visual conditions: cross Lake Norman Airpark at or above 2000’ MSL before proceeding on course. Rwy 32, climb heading 324° to 1300 before proceeding on course.
TAKEOFF OBSTACLE NOTES: Rwy 14, terrain and multiple trees beginning 197’ from DER, 308’ left of centerline, up to 200’ AGL/1099’ MSL. Building and multiple trees beginning 158’ from DER, 258’ right of centerline, up to 100’ AGL/979’ MSL. Rwy 32, tree 559’ from DER, on centerline, 42’ AGL/851’ MSL. Multiple trees beginning 47’ from DER, 34’ left of centerline, up to 101’ AGL/890’ MSL. Multiple trees beginning 526’ from DER, 31’ right of centerline, up to 97’ AGL/886’ MSL.

MORGANTON, NC
FOOTHILLS RGNL (MRN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 11181 (FAA)
TAKEOFF MINIMUMS: Rwy 21, std. w/min. climb of 225’ per NM to 3800.
DEPARTURE PROCEDURE: Rwy 3, climbing left turn direct FIQ NDB, thence ...
Rwy 21, climb direct FIQ NDB, thence ...
... continue climbing in holding pattern (Southwest, left turns, 031° inbound) to 5000 before proceeding on course.
TAKEOFF OBSTACLE NOTES: Rwy 3, trees beginning 167’ from DER, 388’ right of centerline, up to 100’ AGL/1379’ MSL. Rising terrain beginning 138’ from DER, 3’ right of centerline, up to 1260’ MSL. Trees beginning 1180’ from DER, 421’ left of centerline, up to 68’ AGL/1327’ MSL. Rising terrain beginning 39’ from DER, 223’ left of centerline, up to 1277’ MSL. Rwy 21, trees beginning 2329’ from DER, 1061’ right of centerline, up to 100’ AGL/1339’ MSL. Trees beginning 1681’ from DER, 883’ left of centerline, up to 100’ AGL/1379’ MSL.

MONROE, NC
CHARLOTTE-MONROE EXECUTIVE (EQY)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 15232 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 5, trees beginning 24’ from DER, 308’ right of centerline, up to 77’ AGL/736’ MSL. Trees beginning 70’ from DER, 218’ left of centerline, up to 27’ AGL/686’ MSL. Trees beginning 606’ from DER, 58’ right of centerline, up to 33’ AGL/692’ MSL. Poles and trees beginning 651’ from DER, 19’ left of centerline, up to 44’ AGL/713’ MSL. Trees beginning 1223’ from DER, 436’ right of centerline, up to 62’ AGL/721’ MSL. Trees beginning 2151’ from DER, 79’ left of centerline, up to 89’ AGL/748’ MSL. Rwy 23, runway light 12’ from DER, 31’ left of centerline, 2’ AGL/684’ MSL. Trees beginning 1714’ from DER, 203’ left of centerline, up to 97’ AGL/746’ MSL. Trees beginning 2366’ from DER, 771’ right of centerline, up to 86’ AGL/755’ MSL.
TAKEOFF MINIMUMS (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

MOUNT AIRY, NC
MOUNT AIRY/SURRY COUNTY (MWK)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 18312 (FAA)
TAKEOFF MINIMUMS: Rwy 36, std. w/min. climb of 250' per NM to 3900, or 1600-3 for climb in visual conditions.
DEPARTURE PROCEDURE: Rwy 18, climb heading 180° to 2900 before turning left. Rwy 36, climb heading 360° to 2200 before proceeding on course.
VCOA: Rwy 36, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Mount Airy/Surry County Airport at or above 2700 MSL before proceeding, up to 1332' MSL. Trees beginning 250' right of DER, 1277' MSL. Terrain beginning 35' from DER, 74' AGL/1345' MSL.
TAKEOFF OBSTACLE NOTES: Rwy 18, vehicles on road beginning 50' from DER, 378' right of centerline, up to 1222' MSL. Trees beginning 72' from DER, 365' left of centerline, up to 1254' MSL. Tree 189' from DER, 498' right of centerline, 1231' MSL. Tree 219' from DER, 528' right of centerline, 1249' MSL. Trees beginning 318' from DER, 328' right of centerline, up to 1252' MSL. Trees beginning 495' from DER, 354' left of centerline, up to 1259' MSL. Trees beginning 593' from DER, 170' right of centerline, up to 1253' MSL. Trees beginning 1365' from DER, 329' right of centerline, up to 1263' MSL. Building, tree beginning 1841' from DER, 96' left of centerline, up to 47' AGL/1260' MSL. Trees beginning 2091' from DER, 151' left of centerline, up to 73' AGL/1270' MSL. Trees beginning 2110' from DER, 166' left of centerline, up to 77' AGL/1271' MSL. Trees beginning 2134' from DER, 95' left of centerline, up to 81' AGL/1272' MSL. Tree 2668' from DER, 367' left of centerline, 56' AGL/1276' MSL. Tree 2680' from DER, 140' left of centerline, 71' AGL/1278' MSL. Tree 2683' from DER, 306' left of centerline, 61' AGL/1280' MSL. Trees beginning 2684' from DER, 120' left of centerline, up to 1290' MSL. Trees beginning 2716' from DER, 265' left of centerline, up to 1304' MSL. Trees beginning 2849' from DER, 53' left of centerline, up to 89' AGL/1316' MSL. Tree 3196' from DER, 40' right of centerline, 98' AGL/1289' MSL. Rwy 36, terrain 34' from DER, 428' left of centerline, 1279' MSL. Terrain 35' from DER, 325' right of centerline, 1277' MSL. Terrain beginning 94' from DER, 312' right of centerline, up to 1285' MSL. Terrain beginning 116' from DER, 390' left of centerline, up to 1287' MSL. Fence beginning 170' from DER, 465' right of centerline, up to 4' AGL/1289' MSL. Vehicles on road, pole, tree beginning 537' from DER, 451' left of centerline, up to 1332' MSL. Tree 820' from DER, 580' left of centerline, 1344' MSL. Building 941' from DER, 520' right of centerline, 1321' MSL. Trees beginning 987' from DER, 455' left of centerline, up to 1345' MSL. Tree 1151' from DER, 724' right of centerline, 1327' MSL. Trees beginning 1157' from DER, 51' left of centerline, up to 1348' MSL. Trees beginning 1193' from DER, 14' right of centerline, up to 1339' MSL. Trees, pole beginning 2211' from DER, 69' right of centerline, up to 69' AGL/1340' MSL. Tree 2251' from DER, 201' right of centerline, 74' AGL/1345' MSL.

MOUNT OLIVE, NC
MOUNT OLIVE MUNI (W40)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 13066 (FAA)
TAKEOFF MINIMUMS: Rwy 23, 300-1 or std. w/ min. climb of 334' per NM to 500.
TAKEOFF OBSTACLE NOTES: Rwy 5, trees beginning 971' from DER, 27' left of centerline, up to 100' AGL/267' MSL. Trees beginning 2209' from DER, 25' right of centerline, up to 100' AGL/262' MSL. Pole 454' from DER, 407' left of centerline, 17' AGL/191' MSL. Vehicle on road 363' from DER, 115' left of centerline, 15' AGL/179' MSL. Vehicle on road 321' from DER, 106' right of centerline, 15' AGL/181' MSL. GND 14' from DER, 107' right of centerline, 16' AGL/196' MSL. Rwy 23, tower 4535' from DER, 445' right of centerline. 196' AGL/355' MSL. Trees beginning 185' from DER, 108' left of centerline, up to 100' AGL/253' MSL. Trees beginning 865' from DER, 226' right of centerline, up to 100' AGL/259' MSL. Buildings beginning 110' from DER, 323' left of centerline, up to 25' AGL/181' MSL. Poles beginning 279' from DER, 43' left of centerline, up to 20' AGL/184' MSL.

MOUNT PLEASANT, SC
MT PLEASANT RGNL-FAISON FIELD (LRO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 10126 (FAA)
DEPARTURE PROCEDURE: Rwy 17, climb heading 174° to 1400 before proceeding on course. Rwy 35, climb heading 354° to 1900 before turning right.
TAKEOFF OBSTACLE NOTES: Rwy 17, AAO 3.8 NM from DER, 4834' right of centerline, 200' AGL/210' MSL. Rw 35, tree 1900' from DER, 921' left of centerline, 84' AGL/96' MSL. Tree 3043' from DER, 401' right of centerline, 83' AGL/95' MSL.

MYRTLE BEACH, SC
MYRTLE BEACH INTL (MYR)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 10042 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 18, trees beginning 1770' from DER, 664' left of centerline, up to 60' AGL/88' MSL.
NEW BERN, NC
COASTAL CAROLINA RGNL (EWN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 12320 (FAA)
TAKEOFF MINIMUMS: Rwy 14, 300-1 or std. w/min. climb of 240’ per NM to 300, or alternatively, with standard takeoff minimums and a normal 200’ per NM climb gradient, takeoff no later than 1900’ prior to DER. Rwy 32, std. w/min. climb of 215’ per NM to 800, or 1100-2/3 for climb in visual conditions.
DEPARTURE PROCEDURE: Rwy 4, climb heading 039° to 600 before turning north. Rwy 32, climb heading 316° to 800 before turning north, or for climb in visual conditions cross coastal Carolina RGNL airport at or above 1000 MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.
TAKEOFF OBSTACLE NOTES: Rwy 4, signs beginning 9’ from DER, 429’ right of centerline, up to 45’ AGL/61’ MSL. Vehicles on road beginning 87’ from DER, 499’ left of centerline, up to 17’ AGL/27’ MSL. Trees, sign and vertical structure beginning 645’ from DER, left and right of centerline, up to 91’ AGL/104’ MSL. Rwy 14, trees beginning 92’ from DER, 257’ left of centerline, up to 77’ AGL/92’ MSL. Trees and pole beginning 226’ from DER, 146’ right of centerline, up to 98’ AGL/118’ MSL. Trees and tower beginning 3335’ from DER, 118’ left of centerline, up to 120’ AGL/145’ MSL. Antenna 5034’ from DER, 1239’ left of centerline, up to 147’ AGL/170’ MSL.

NEWBERRY, SC
NEWBERRY COUNTY (EOE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 08325 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 4, multiple trees beginning 1895’ from DER, left and right of centerline, up to 68’ AGL/78’ MSL. Trees beginning 2977’ from DER, left and right of centerline, up to 115’ AGL/122’ MSL. Rwy 24, bush and trees beginning 1729’ from DER, 1456’ right of centerline, up to 101’ AGL/111’ MSL. Trees and transmission tower 744’ from DER, 31’ left of centerline, up to 116’ AGL/126’ MSL.

NEW RIVER MCAS (MC CUTCHEON FLD)
(KNCA)
JACKSONVILLE, NC
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 08325 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 1, building 1375’ from DER, 1119’ left of centerline, 80’ AGL/96’ MSL.
TAKEOFF MINIMUMS (OBSTACLE) DEPARTURE PROCEDURES, AND
DIVERSE VECTOR AREA (RADAR VECTORS)

NORTH WILKESBORO, NC
WILKES COUNTY (UKF)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1A 19171 (FAA)
TAKEOFF MINIMUMS: RwY 1, std. w/min. climb of 330' per NM to 5000 or 2000-3 for climb in visual conditions. RwY 19, std. w/min. climb of 230' per NM to 3200 or 2000-3 for climb in visual conditions.
DEPARTURE PROCEDURE: RwY 19, climb heading 187° to 3200 before proceeding on course.
VCOA: All runways, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Wilkes County airport at or above 3200 before proceeding on course.
TAKEOFF OBSTACLE NOTES: RwY 1, trees beginning 2’ from DER, 309’ right of centerline, up to 1344’ MSL. Tree 44’ from DER, 447’ left of centerline, 1351’ MSL. Tree 65’ from DER, 501’ left of centerline, 1352’ MSL. Trees beginning 171’ from DER, 495’ left of centerline, up to 1364’ MSL. Trees beginning 294’ from DER, 468’ left of centerline, up to 1367’ MSL. Trees, building beginning 324’ from DER, 263’ right of centerline, up to 1358’ MSL. Tree 425’ from DER, 405’ right of centerline, 1367’ MSL. Tree 484’ from DER, 491’ right of centerline, 1378’ MSL. Trees beginning 520’ from DER, 263’ right of centerline, up to 1379’ MSL. Trees, pole beginning 587’ from DER, 188’ left of centerline, up to 1370’ MSL. Trees beginning 760’ from DER, 263’ right of centerline, up to 1389’ MSL. Trees beginning 884’ from DER, 188’ left of centerline, up to 1381’ MSL. Trees beginning 1014’ from DER, 146’ right of centerline, up to 1398’ MSL. Tree 1417’ from DER, 53’ left of centerline, 1374’ MSL. Tree 1452’ from DER, 641’ left of centerline, 1384’ MSL. Trees beginning 1528’ from DER, 1’ left of centerline, up to 1403’ MSL. Trees, poles beginning 2154’ from DER, 423’ left of centerline, up to 1421’ MSL. Trees, pole beginning 2369’ from DER, 357’ left of centerline, up to 1423’ MSL. Trees beginning 2784’ from DER, 497’ right of centerline, up to 1398’ MSL. Trees beginning 3436’ from DER, 726’ right of centerline, up to 1406’ MSL. Trees beginning 3646’ from DER, 1115’ right of centerline, up to 1413’ MSL. Tree 4982’ from DER, 1807’ left of centerline, 1428’ MSL. Trees beginning 5360’ from DER, 187’ right of centerline, up to 1443’ MSL. Tree 5510’ from DER, 363’ right of centerline, 1448’ MSL. Tree 5558’ from DER, 430’ right of centerline, 1451’ MSL. Trees beginning 5517’ from DER, 290’ right of centerline, up to 1460’ MSL. RwY 19, trees beginning 33’ from DER, 321’ right of centerline, up to 1262’ MSL. Trees beginning 135’ from DER, 475’ left of centerline, up to 1298’ MSL. Trees beginning 173’ from DER, 326’ right of centerline, up to 1266’ MSL. Tree 990’ from DER, 652’ left of centerline, 1304’ MSL. Tree 1037’ from DER, 469’ right of centerline, 1274’ MSL.

OAK ISLAND, NC
CAPE FEAR RGNL JETPORT / HOWIE FRANKLIN FLD (SUT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 12180 (FAA)
TAKEOFF MINIMUMS: RwY 5, 400-3 or std. w/min. climb of 210’ per NM to 600, or alternatively with standard takeoff minimums and a normal 200’ per NM climb gradient, takeoff must occur no later than 1500’ prior to DER.
TAKEOFF OBSTACLE NOTES: RwY 5, building, trees and towers beginning 18’ from DER, 21’ right of centerline, up to 92’ AGL/97’ MSL. Trees beginning 257’ from DER, 21’ left of centerline, up to 89’ AGL/104’ MSL. RwY 23, trees beginning 42’ from DER, left and right of centerline, up to 92’ AGL/102’ MSL.

ORANGEBURG, SC
ORANGEBURG MUNI (OGB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 19115 (FAA)
TAKEOFF MINIMUMS: RwY 35, 300-2½ or std. w/min. climb of 240’ per NM to 600.
DEPARTURE PROCEDURE: RwY 5, climb heading 049° to 1000 before turning left. RwY 35, climb heading 354° to 800 before turning right.
TAKEOFF OBSTACLE NOTES: RwY 5, tree 190’ from DER, 474° left of centerline, 279’ MSL. Tree 302’ from DER, 384° left of centerline, 286’ MSL. Trees beginning 421’ from DER, 386’ right of centerline, up to 289’ MSL. Traverse way 769’ from DER, 406’ right of centerline, 220’ MSL. RwY 23, tree 32’ from DER, 477° left of centerline, 186’ MSL. Tree 370’ from DER, 684’ right of centerline, 253’ MSL. Pole 1260’ from DER, 127’ left of centerline, 52’ AGL/202’ MSL. Trees beginning 1647’ from DER, 420’ right of centerline, up to 259’ MSL. Tree 2195’ from DER, 45’ left of centerline, 250’ MSL. Tree 2529’ from DER, 118’ left of centerline, 251’ MSL. RwY 35, tree 798’ from DER, 231’ left of centerline, 277’ MSL. Trees beginning 1538’ from DER, 241’ right of centerline, up to 272’ MSL. Transmission line 3374’ from DER, 663’ right of centerline, 97’ AGL/296’ MSL. Trees beginning 3663’ from DER, 1239’ right of centerline, up to 301’ MSL. Tower 1.9 NM from DER, 2830’ right of centerline, 268’ AGL/477’ MSL.

OXFORD, NC
HENDERSO-OXFORD (HNZ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 15064 (FAA)
DEPARTURE PROCEDURE: RwY 24, climb heading 240° to 1300 before turning right.
TAKEOFF OBSTACLE NOTES: RwY 6, trees beginning 263’ from DER, 358’ left of centerline, up to 68’ AGL/558’ MSL. Trees beginning 670’ from DER, 496’ right of centerline, up to 60’ AGL/552’ MSL. RwY 24, silo, vehicles on road, telephone line, and trees beginning 7’ from DER, 353’ right of centerline, up to 88’ AGL/601’ MSL. Trees beginning 771’ from DER, 10’ left of centerline, up to 100’ AGL/595’ MSL. Trees beginning 1596’ from DER, 248’ left of centerline, up to 100’ AGL/618’ MSL.
TAKEOFF MINIMUMS (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

PAGELAND, SC
PAGELAND (PYG)

DEPARTURE PROCEDURES

AMDT 1 17061 (FAA)

TAKEOFF OBSTACLE NOTES: Rwy 6, tree 10’ from DER, 407’ left of centerline, 601’ MSL. Tree 38’ from DER, 417’ right of centerline, 582’ MSL. Pole 67’ from DER, 296’ right of centerline, 595’ MSL. Tree and pole beginning 73’ from DER, 188’ left of centerline, up to 667’ MSL. Flag pole 81’ from DER, 439’ right of centerline, 596’ MSL. Pole 114’ from DER, 381’ right of centerline, 597’ MSL. Tree 199’ from DER, 327’ right of centerline, up to 621’ MSL. Airport beacon, trees, and vehicles on road beginning 222’ from DER, 372’ left of centerline, up to 608’ MSL. Trees and vehicles on road beginning 265’ from DER, 401’ right of centerline, up to 627’ MSL. Trees, blgd, and poles beginning 324’ from DER, 345’ left of centerline, up to 622’ MSL. Trees beginning 1235’ from DER, 698’ left of centerline, up to 630’ MSL. Trees beginning 1295’ from DER, 40’ left of centerline, up to 641’ MSL. Trees beginning 1793’ from DER, 167’ right of centerline, up to 635’ MSL. Tree 2177’ from DER, 36’ left of centerline, up to 627’ MSL. Tree and windsock beginning 20’ from DER, 148’ right of centerline, up to 581’ MSL. Vehicle on road beginning 42’ from DER, 406’ left of centerline, up to 571’ MSL. Tree and pole beginning 55’ from DER, 390’ left of centerline, up to 600’ MSL. Trees beginning 111’ from DER, 209’ right of centerline, up to 587’ MSL. Tree 138’ from DER, 501’ left of centerline, 604’ MSL. Trees, fence, poles, blgd, and vehicles on road beginning 225’ from DER, 417’ left of centerline, up to 609’ MSL. Trees beginning 1174’ from DER, 364’ left of centerline, up to 624’ MSL.

DEPARTURE PROCEDURE: Rwy 5, climb heading 048° to 2300 then climbing right turn via heading 120° to 3400 to intercept V20-35. Rwy 23, climb heading 228° to 2200 then climbing left turn via heading 120° to 3400 to intercept V20-35.

TAKEOFF OBSTACLE NOTES: Rwy 5, tree 30’ from DER, 299’ left of centerline, 9’ AGL/1022’ MSL. Vehicles on roadway, 424’ from DER, left and right of centerline, up to 15’ AGL/1028’ MSL. Trees beginning 1531’ from DER, 691’ left of centerline, up to 107’ AGL/1038’ MSL. Tree 3019’ from DER, 450’ right of centerline, 120’ AGL/1095’ MSL. Rwy 23, tree 906’ from DER, 269’ left of centerline, 91’ AGL/990’ MSL. Trees beginning 1015’ from DER, 466’ right of centerline, up to 106’ AGL/1022’ MSL.

DEPARTURE PROCEDURE: Rwy 23, climb heading 234° to 1100 before turning left.

TAKEOFF OBSTACLE NOTES: Rwy 5, terrain 448’ from DER, 343’ right of centerline, 443’ MSL. Trees beginning 663’ from DER, 137’ right of centerline, up to 100’ AGL/475’ MSL. Terrain 141’ from DER, 329’ left of centerline, 435’ MSL. Trees beginning 176’ from DER, 220’ left of centerline, up to 100’ AGL/529’ MSL. Rwy 23, pipe 228’ from DER, 431’ right of centerline, 13’ AGL/463’ MSL. Antenna 657’ from DER, 415’ right of centerline, 32’ AGL/482’ MSL. Trees beginning 701’ from DER, 422’ right of centerline, up to 100’ AGL/579’ MSL. Trees beginning 364’ from DER, 353’ left of centerline, up to 100’ AGL/569’ MSL.

DEPARTURE PROCEDURE: Rwy 23, climb heading 234° to 1100 before turning left.

TAKEOFF OBSTACLE NOTES: Rwy 5, terrain 448’ from DER, 343’ right of centerline, 443’ MSL. Trees beginning 663’ from DER, 137’ right of centerline, up to 100’ AGL/475’ MSL. Terrain 141’ from DER, 329’ left of centerline, 435’ MSL. Trees beginning 176’ from DER, 220’ left of centerline, up to 100’ AGL/529’ MSL. Rwy 23, pipe 228’ from DER, 431’ right of centerline, 13’ AGL/463’ MSL. Antenna 657’ from DER, 415’ right of centerline, 32’ AGL/482’ MSL. Trees beginning 701’ from DER, 422’ right of centerline, up to 100’ AGL/579’ MSL. Trees beginning 364’ from DER, 353’ left of centerline, up to 100’ AGL/569’ MSL.
POPE AAF (KPOB)
FORT BRAGG, NC
TAKEOFF MINIMUMS AND (OBLICLACE) DEPARTURE PROCEDURES
AMDT 8 18144
DEPARTURE PROCEDURE: Rwy 5, expect radar vectors from Fayetteville approach. Rwy 23, expect radar vectors from Fayetteville approach. Std. w/ min climb of 232’ per NM to 1000 or 300-1/4 w/ min climb of 220’ per NM to 1000.
TAKEOFF OBSTACLE NOTES: Rwy 5, multiple trees 1473’ to 1554’ from DER, 776’ right of centerline, up to 45’ AGL/231’ MSL. Multiple trees 2187’ from DER, 1030’ right of centerline, up to 82’ AGL/267’ MSL. Multiple trees 3068’ from DER, 418’ right of centerline, up to 96’ AGL/269’ MSL. Multiple trees 3388’ from DER, 785’ right of centerline, up to 135’ AGL/278’ MSL. Multiple trees 1682’ from DER, 703’ left of centerline, up to 59’ AGL/233’ MSL. Multiple trees 1980’ to 3385’ from DER, 667’ left of centerline, up to 116’ AGL/288’ MSL. Industrial plant 3878’ from DER, 1124’ left of centerline, 100’ AGL/283’ MSL. Rwy 23, fence 1201’ from DER, 71’ left of centerline, 247’ MSL. Terrain 1986’ from DER, 864’ right of centerline, 282’ MSL. Terrain 1901’ from DER, 1010’ right of centerline, 268’ MSL. Multiple trees 2322’ to 2831’ from DER, 710’ right of centerline, up to 50’ AGL/292’ MSL. Multiple trees 2907’ to 4488’ from DER, 330’ right of centerline, up to 84’ AGL/349’ MSL. Multiple ballpark lights 5098’ from DER, 450’ right of centerline, 75’ AGL/348’ MSL. Multiple trees 1278’ to 1761’ from DER, 245’ left of centerline, up to 62’ AGL/290’ MSL. Multiple trees 3385’ to 5885’ from DER, 5’ left of centerline, up to 77’ AGL/370’ MSL. Forestry tower 2.2 NM from DER, 3399’ right of centerline, 140’ AGL/559’ MSL. Tree 1.4 NM from DER, 2527’ left of centerline, 120’ AGL/473’ MSL. Trees 2345’ to 2643’ from DER, 128’ left of centerline, 43’ AGL/290’ MSL. Possible C-5 976’ from DER, 295’ left of centerline, 85’ AGL/274’ MSL. Pylon and trees 1.3 NM from DER, 1285’ left of centerline, 120’ AGL/473’ MSL. Tower 5900’ from DER, 1750’ right of centerline, 54’ AGL/374’ MSL. Tower 3.0 NM from DER, 1.4 NM right of centerline, 220’ AGL/746’ MSL.

RALEIGH-DURHAM, NC
RALEIGH-DURHAM INTL (RDU)
TAKEOFF MINIMUMS AND (OBLICLACE) DEPARTURE PROCEDURES
AMDT 6A 18144 (FAA)
TAKEOFF MINIMUMS: Rwy 32, 300-1. DEPARTURE PROCEDURE: Rwy 14, climb heading 144° to 1400 before turning right. Rwy 23L, climb heading 234° to 1900 before turning left. DEPARTURE PROCEDURE: Rwy 14, climb heading 234° to 1800 before turning left.
TAKEOFF OBSTACLE NOTES: Rwy 5L, trees 3802’ from DER, 1237’ left of centerline, up to 77’ AGL/506’ MSL. Tank and trees beginning 2011’ from DER, 948’ right of centerline, up to 138’ AGL/547’ MSL. Rwy 5R, trees 1436’ from DER, 803’ right of centerline, up to 80’ AGL/469’ MSL. Rwy 14, trees beginning 2021’ from DER, 510’ left of centerline, up to 116’ AGL/545’ MSL. Trees beginning 2467’ from DER, 2’ right of centerline, up to 122’ AGL/571’ MSL. Rwy 23L, trees 1495’ from DER, 797’ left of centerline, up to 58’ AGL/447’ MSL. Light pole 1457’ from DER, 878’ right of centerline, 93’ AGL/452’ MSL. Rwy 32, light poles beginning 1170’ from DER, 618’ left of centerline, up to 55’ AGL/486’ MSL. Hangar 1242’ from DER, 753’ right of centerline, 34’ AGL/473’ MSL. Control tower 2207’ from DER, 910’ right of centerline, 231’ AGL/660’ MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)
AMDT 1 17173 (FAA)
Rwy 14, heading as assigned by ATC; requires minimum climb of 310’ per NM to 1000, Rwy 23L, heading as assigned by ATC; requires minimum climb of 250’ per NM to 2300. Rwy 23R, heading as assigned by ATC; requires minimum climb of 240’ per NM to 2100.

REIDSVILLE, NC
ROCKINGHAM COUNTY NC SHILOH (SIF)
TAKEOFF MINIMUMS AND (OBLICLACE) DEPARTURE PROCEDURES
AMDT 2 09295 (FAA)
TAKEOFF MINIMUMS: Rwy 31, 400-2 or std. w/ min climb of 535’ per NM to 1200.
TAKEOFF OBSTACLE NOTES: Rwy 13, trees beginning 40’ from DER, 63’ left of centerline, up to 100’ AGL/768’ MSL. Power pole 1192’ from DER, 430’ right of centerline, 30’ AGL/702’ MSL. Tree beginning 1539’ from DER, 30’ right of centerline, up to 100’ AGL/755’ MSL. Rwy 31, power pole 2054’ from DER, 243’ right of centerline, 30’ AGL/763’ MSL. Vehicle on road 31’ from DER, 485’ left of centerline, 15’ AGL/714’ MSL. Trees beginning 1164’ from DER, 187’ right of centerline, up to 100’ AGL/1019’ MSL. Trees beginning 152’ from DER, 317’ left of centerline, up to 100’ AGL/979’ MSL. Rising terrain beginning 123’ from DER, 27’ left of centerline, up to 939’ MSL. Rising terrain beginning 64’ from DER, 27’ right of centerline, up to 939’ MSL.

P K AIRPARK (5W4)
TAKEOFF MINIMUMS AND (OBLICLACE) DEPARTURE PROCEDURES
AMDT 1 10322 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 4, rising terrain 48’ from DER, left and right of centerline, up to 332’ MSL. Trees beginning 83’ from DER, left and right of centerline, up to 100’ AGL/429’ MSL. Vehicles on road beginning 329’ from DER, 189’ right of centerline, up to 15’ AGL/324’ MSL. Rwy 22, terrain 42’ from DER, left and right of centerline, up to 306’ MSL. Trees beginning 268’ from DER, left and right of centerline, up to 100’ AGL/389’ MSL. Vehicles on road beginning 1’ from DER, left and right of centerline, up to 15’ AGL/314’ MSL.
TAKEOFF MINIMUMS (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

ROANOKE RAPIDS, NC
HALIFAX-NORTHAMPTON RGNL (IXA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 17229 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 20, tree 100' from DER, 492' left of centerline, 178' MSL. Tree 1363' from DER, 183' right of centerline, 182' MSL. Trees beginning 1420' from DER, 27' right of centerline, up to 187' MSL. Tree 1515' from DER, 29' left of centerline, 176' MSL. Tree 1696' from DER, 56' left of centerline, 191' MSL. Tree 1724' from DER, 127' left of centerline, 195' MSL. Trees beginning 1780' from DER, 70' left of centerline, up to 199' MSL. Trees beginning 2026' from DER, 151' left of centerline, up to 200' MSL. Tree 2276' from DER, 77' right of centerline, 199' MSL. NAVAID 39' from DER, 125' right of centerline, 20' AGL/140' MSL. NAVAID 40' from DER, 124' left of centerline, up to 18' AGL/141' MSL. Tree 1298' from DER, 722' right of centerline, 183' MSL.

ROCKY MOUNT, NC
ROCKY MOUNT-WILSON RGNL (RWI)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 12096 (FAA)
DEPARTURE PROCEDURE: Rw 22, climb heading 222° to 1200 before turning right.
TAKEOFF OBSTACLE NOTES: Rw 4, trees 1457' from DER, 792' left of centerline, up to 58' AGL/207' MSL. Trees 2452' from DER, 751' right of centerline, up to 72' AGL/231' MSL. Rw 22, trees beginning 1215' from DER, 428' left of centerline, up to 66' AGL/224' MSL. Trees 2452' from DER, 665' right of centerline, up to 45' AGL/204' MSL.

ROCK HILL, SC
ROCK HILL/YORK COUNTY/BRYANT FIELD (UZA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 15232 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 2, trees beginning 99' from DER, 491' right of centerline, up to 89' AGL/750' MSL. Trees beginning 1857' from DER, 77' right of centerline, 199' MSL. Rw 02, NAVAID 39' from DER, 125' right of centerline, 20' AGL/140' MSL. NAVAID 40' from DER, 124' left of centerline, 18' AGL/141' MSL. Tree 1298' from DER, 722' right of centerline, 183' MSL.

ROXBORO, NC
PERSON COUNTY (TDF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 06215 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 6, trees 1600' from DER, 200' right of centerline, 100' AGL/729' MSL. Rw 24, trees 562' from DER, 577' left of centerline, 100' AGL/699' MSL.

RUTHERFORDTON, NC
RUTHERFORD CO-MARCHMAN FIELD (FQD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 19059 (FAA)
TAKEOFF MINIMUMS: Rw 1, std. w/min. climb of 290' per NM to 2900 or 2900-3 for climb in visual conditions. DEPARTURE PROCEDURE: Rw 1, climbing right turn heading 180° to 4000 before proceeding on course. Rw 19, climb heading 189° to 3600 before proceeding on course. VCOA: Obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Rutherford Co-Marchman Field at or above 3800 before proceeding on course.
TAKEOFF OBSTACLE NOTES: Rw 1, tree, NAVAID beginning 6' from DER, 250' left of centerline, up to 1139' MSL. Tree 315' from DER, 478' right of centerline, 1151' MSL. Tree 1985' from DER, 988' right of centerline, 1166' MSL. Rw 19, tree 28' from DER, 329' left of centerline, 1080' MSL. Tree 489' from DER, 455' right of centerline, 26' AGL/1088' MSL.

ROCKINGHAM, NC
RICHMOND COUNTY (RCZ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 10154 (FAA)
TAKEOFF MINIMUMS: Rwys 4, 22, NA-Environmental.
TAKEOFF OBSTACLE NOTES: Rw 14, multiple trees beginning 676' from DER, 20' right of centerline, up to 100' AGL/441' MSL. Multiple trees beginning 5' from DER, 75' left of centerline, up to 100' AGL/458' MSL. Train beginning 6' from DER, 355' left of centerline, 23' AGL/382' MSL. Rw 32, tree 1152' from DER, 443' left of centerline, 100' AGL/399' MSL. Tree 181' from DER, 428' right of centerline, 100' AGL/429' MSL. Vehicles on roadway 34' from DER, 498' right of centerline, up to 15' AGL/364' MSL.

ST. GEORGE, SC
ST. GEORGE (6J2)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 08101 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 5, tree 3021' from DER, 186' left of centerline, 100' AGL/175' MSL. Rw 23, tree 1401' from DER, 259' right of centerline, 100' AGL/178' MSL.
TAKEOFF MINIMUMS (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

SALISBURY, NC
MID-CAROLINA RGNL (RUQ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2A 17229 (FAA)
TAKEOFF MINIMUMS: Rwy 20, 400-2½ or std. w/min. climb of 205’ per NM to 1300, or alternatively, with standard takeoff minimums and a normal 200’ per NM climb gradient, takeoff must occur no later than 1200’ prior to DER.
DEPARTURE PROCEDURE: Rw 20, climb heading 202° to 1700 before turning right.
TAKEOFF OBSTACLE NOTES: Rwy 2, trees beginning 106’ from DER, 474’ right of centerline, up to 68’ AGL/787’ MSL. Rw 20, trees beginning 167’ from DER, 483’ right of centerline, up to 31’ AGL/810’ MSL.

SEYMOUR JOHNSON AFB (KGSB)
GOLDSBORO, NC
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2, 14205
TAKEOFF MINIMUMS: Rw 26, 200-1½ or standard with minimum climb of 210 ft/NM to 500’ or with standard minimums and a standard 200 ft/NM climb gradient, takeoff must occur no later than 1300’ prior to DER.
TAKEOFF OBSTACLE NOTES: Rw 8, vehicle, 15’ AGL/128’ MSL, 1547’ from DER, 796’ right of centerline. Multiple trees, 80’ AGL/194’ MSL, beginning 3014’ from DER, 952’ left of centerline. Rw 26, trees 110’ AGL/235’ MSL, 1.2 NM from DER, 1155’ left of centerline.

SALUDA, SC
SALUDA COUNTY (6J4)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 09351 (FAA)
TAKEOFF MINIMUMS: Rw 19, 300-2 or std. w/ min. climb of 207’ per NM to 900, or alternatively, with standard takeoff minimums and a normal 200’/NM climb gradient, takeoff must occur no later than 1400’ prior to DER.
TAKEOFF OBSTACLE NOTES: Rw 1, numerous trees beginning abeam DER, 40’ left of centerline, up to 66’ AGL/635’ MSL. Numerous trees beginning abeam DER, 35’ right of centerline, up to 100’ AGL/649’ MSL. Rw 19, numerous trees beginning abeam DER, 20’ left of centerline, up to 43’ AGL/552’ MSL. Numerous trees beginning abeam DER, 30’ right of centerline, up to 100’ AGL/639’ MSL.

SHEALY, NC
SHEALY-CLEVELAND COUNTY RGNL (EHO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG, 14289
TAKEOFF OBSTACLE NOTES: Rw 4R, terrain 500’ left of centerline, at the threshold, 236’ MSL. Surveyed terrain 500’ left of centerline, 234’ MSL. Rw 22L, radio tower 5137’ from DER, 1701’ left of centerline, 140’ AGL/369’ MSL. Glideslope antenna 563’ from DER, 500’ right of centerline, 40’ AGL/273’ MSL. Terrain 0’ inward of DER, 500’ right of centerline, 236’ MSL. Rw 22R, terrain beginning at 255’ from DER, 500’ right of centerline to 568’ right of centerline, up to 246’ MSL. Trees 665’ from DER, 832’ right of centerline, 65’ AGL/337’ MSL.

SANFORD, NC
RALEIGH EXECUTIVE JETPORT AT SANFORD-LEE COUNTY (TTA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 11237 (FAA)
DEPARTURE PROCEDURE: Rw 3, climb heading 029° to 1100 before turning right. Rw 21, climb heading 209° to 1500 before turning left.
TAKEOFF OBSTACLE NOTES: Rw 3, trees beginning 331’ from DER, 380’ right of centerline, up to 89’ AGL/318’ MSL. Rw 21, trees beginning 89’ from DER, 435’ right of centerline, up to 29’ AGL/259’ MSL.

SHAW AFB (KSSC)
SUMTER, SC
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG, 14289
TAKEOFF OBSTACLE NOTES: Rw 4R, terrain 500’ left of centerline, at the threshold, 236’ MSL. Surveyed terrain 500’ left of centerline, 234’ MSL. Rw 22L, radio tower 5137’ from DER, 1701’ left of centerline, 140’ AGL/369’ MSL. Glideslope antenna 563’ from DER, 500’ right of centerline, 40’ AGL/273’ MSL. Terrain 0’ inward of DER, 500’ right of centerline, 236’ MSL. Rw 22R, terrain beginning at 255’ from DER, 500’ right of centerline to 568’ right of centerline, up to 246’ MSL. Trees 665’ from DER, 832’ right of centerline, 65’ AGL/337’ MSL.

SHELBY, NC
SHELBY-CLEVELAND COUNTY RGNL (EHO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 09015 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 5, trees beginning 74’ from DER, 394’ left of centerline, up to 99’ AGL/899’ MSL. Trees beginning 2018’ from DER, 804’ right of centerline, up to 100’ AGL/919’ MSL. Rw 23, trees beginning 186’ from DER, 148’ left of centerline, up to 93’ AGL/903’ MSL.
**TAKEOFF MINIMUMS (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)**

**SILER CITY, NC**
SILER CITY MUNI (SCR)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 15008 (FAA)

TAKEOFF MINIMUMS: Rwy 4, 300-1/2° or std. w/min. climb of 236° per NM to 1000, or alternatively, with standard takeoff minimums and a normal 200° per NM climb gradient, takeoff must occur no later than 2000' prior to DER.

TAKEOFF OBSTACLE NOTES: Rwy 4, trees beginning 25' from DER, 26' right of centerline, up to 96' AGL/855' MSL. Poles beginning 158' from DER, 364' left of centerline, up to 34' AGL/634' MSL. Trees beginning 276' from DER, 3' left of centerline, up to 77' AG/736' MSL. Vehicles on road beginning 86' from DER, 330' right of centerline, up to 15' AGL/612' MSL. Trees beginning 154' from DER, 5' right of centerline, up to 100' AGL/749' MSL. Bldg 374' from DER, 466' right of centerline, 20' AGL/619' MSL. Pole 490' from DER, 357' right of centerline, 26' AGL/625' MSL. Pole 580' from DER, 481' right of centerline, 18' AGL/617' MSL. Bldg 591' from DER, 427' right of centerline, 16' AGL/615' MSL. Pole 769' from DER, 314' right of centerline, 19' AGL/618' MSL. Pole 1188' from DER, 253' right of centerline, 23' AGL/632' MSL.

**SIMMONS AAF (KFBG)**
FORT BRAGG, NC
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2A, 13010
Rwy 27, 400-2½°

* Or standard with minimum climb of 230 ft/NM to 700.

DEPARTURE PROCEDURE: Rwy 27, climb heading 273° to 800 before proceeding on course.

TAKEOFF OBSTACLE NOTES: Rwy 9, Terrain 233' MSL. beginning 80' from DER, 27' right of centerline. Rwy 27, Terrain 283' MSL. beginning 105' from DER, left and right of centerline. Antenna, 292' AGL/584' MSL. 1.9 NM from DER, 3586' right of centerline.

**SMITHFIELD, NC**
JOHNSTON RGNL (JNX)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 15120 (FAA)

TAKEOFF MINIMUMS: Rwy 3, 300-1/2° or std. w/min climb of 265° per NM to 500. Rwy 21, 500-2½° or std. w/min climb of 265° per NM to 800.

DEPARTURE PROCEDURE: Rwy 3, climb heading 032° to 1500 before turning left. Rwy 21, climb heading 212° to 1000 before turning right.

TAKEOFF OBSTACLE NOTES: Rwy 3, trees beginning 35' from DER, 380' right of centerline, up to 96' AGL/276' MSL. Terrain 99' from DER, 364' right of centerline, 171' MSL. Poles beginning 1236' from DER, 30' left and right of centerline, up to 44' AGL/234' MSL. Trees beginning 2317' from DER, 103' left of centerline, up to 100' AGL/349' MSL. Building 2610' from DER, 244' left of centerline, 36' AGL/231' MSL. Tank 2732' from DER, 6' left of centerline, 45' AGL/238' MSL. Tree 1 NM from DER, 251' right of centerline, 131' AGL/301' MSL. Rwy 21, trees beginning 1' from DER, 338' right of centerline, up to 100' AGL/269' MSL. Trees beginning 21' from DER, 366' left of centerline, up to 62' AGL/232' MSL. Terrain 1374' from DER, 589' left of centerline, 187' MSL. Pole 1409' from DER, 816' left of centerline, 27' AGL/210' MSL. Tower 2.6 NM from DER, 2887' right of centerline, 378' AGL/613' MSL.

**SPARTANBURG, SC**
SPARTANBURG DOWNTOWN MEMORIAL/ SIMPSON FIELD (SPA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 19059 (FAA)

DEPARTURE PROCEDURE: Rwy 5, trees beginning 622' from DER, 608' left of centerline, up to 830' MSL. Tree 2352' from DER, 996' left of centerline, 856' MSL. Rwy 23, trees beginning 122' from DER, 444' left of centerline, up to 825' MSL. Tree 3391' from DER, 1033' right of centerline, 897' MSL. Tree 3478' from DER, 208' left of centerline, 884' MSL. Trees beginning 3504' from DER, 360' right of centerline, up to 901' MSL.

**STAR, NC**
MONTGOMERY COUNTY (43A)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 14261 (FAA)

TAKEOFF MINIMUMS: Rwy 3, 300-1/2° or std. w/min climb of 205° per NM to 900, or alternatively, with standard takeoff minimums and a normal 200° per NM climb gradient, takeoff must occur no later than 1200' prior to DER. Rwy 21, 300-1/4° or std. w/min climb of 238' per NM to 800, or alternatively, with standard takeoff minimums and a normal 200° per NM climb gradient, takeoff must occur no later than 1900' prior to DER.

TAKEOFF OBSTACLE NOTES: Rwy 3, tank 6188' from DER, 1619' left of centerline, 145' AGL/793' MSL. Trees beginning 7' from DER, 169' left of centerline, up to 100' AGL/739' MSL. Trees beginning 250' from DER, 334' right of centerline, up to 100' AGL/739' MSL. Power line beginning 123' from DER, 38' right of centerline, 40' AGL/670' MSL. Rwy 21, trees beginning 184' from DER, 407' left of centerline, up to 100' AGL/729' MSL. Trees beginning 24' from DER, 259' right of centerline, up to 100' AGL/719' MSL.
TAEKOFF MINIMUMS (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

STATESVILLE, NC
STATESVILLE RGNL (SVH)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 05300 (FAA)
TAKEOFF MINIMUMS: Rw 28, 300-1/4 or std. with a min. climb of 220' per NM to 1300.
TAKEOFF OBSTACLE NOTES: Rw 28, power line tower 89' from DER, 858' right of centerline, 180' AGL/1199' MSL.

SUMMERVILLE, SC
SUMMERVILLE (DYB)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 2 18032 (FAA)
DEPARTURE PROCEDURE: Rw 6, climb heading 056° to 600 before turning left.
TAKEOFF OBSTACLE NOTES: Rw 6, lighting 10' from DER, 15' right of centerline, 1' AGL/54' MSL. Tree, 22' from DER, 471' left of centerline, 66' MSL. Vehicles on perimeter road crossing centerline, 500' from DER, 15' AGL/61' MSL. Building 283' from DER, 563' left of centerline, 77' MSL. Tree 481' from DER, 566' right of centerline, 109' MSL. Tree 524' from DER, 433' left of centerline, 109' MSL. Trees, beginning 552' from DER, 444' right of centerline, up to 115' MSL. Trees, beginning 995' from DER, 1' left of centerline, up to 127' MSL. Trees, beginning 663' from DER, 394' right of centerline, up to 130' MSL. Trees, beginning 1040' from DER, on centerline, up to 137' MSL. Trees, beginning 2360' from DER, 69' right of centerline, up to 139' MSL. Rw 24, trees, beginning 0' from DER, 357' right of centerline, up to 92' AGL/116' MSL. Trees, beginning 82' from DER, 21' left of centerline, up to 17' AGL/41' MSL. Tree 922' from DER, 667' left of centerline, 87' MSL. Trees, beginning 1018' from DER, 627' left of centerline, up to 91' MSL. Tree 1187' from DER, 813' left of centerline, 93' MSL. Trees, beginning 1303' from DER, 622' left of centerline, up to 95' MSL. Trees, beginning 1452' from DER, 627' left of centerline, up to 101' MSL. Trees, beginning 1552' from DER, 578' left of centerline, up to 104' MSL. Trees, beginning 1979' from DER, 938' left of centerline, up to 105' MSL. Tree 2115' from DER, 822' left of centerline, 108' MSL. Trees, beginning 2118' from DER, 507' left of centerline, up to 111' MSL.

SYLVA, NC
JACKSON COUNTY (24A)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 15008 (FAA)
TAKEOFF MINIMUMS: Rw 15, std. w/min. climb of 548' to 5100 or 3300-3 for climb in visual conditions. Rw 33, std. w/min. climb of 355' to 6400 or 3300-3 for climb in visual conditions.
DEPARTURE PROCEDURE: Rw 15, climb heading 147° to 6100 before proceeding on course. For climb in visual conditions, cross Jackson County airport at or above 6000 before proceeding on course. When executing VCOA, notify ATC prior to departure. Rw 33, climb heading 327° to 6400 before proceeding on course. For climb in visual conditions, cross Jackson County airport at or above 6000 before proceeding on course. When executing VCOA, notify ATC prior to departure.
TAKEOFF OBSTACLE NOTES: Rw 15, trees beginning 109' from DER, 31' left of centerline, up to 100' AGL/2939' MSL. Trees beginning 19' from DER, 53' right of centerline, up to 100' AGL/2959' MSL. Building 221' from DER, 324' left of centerline, 25' AGL/2864' MSL. Airplane on tarmac 137' from DER, 140' left of centerline, up to 20' AGL/2899' MSL. Transmission tower 1763' from DER, 860' right of centerline, up to 200' AGL/2879' MSL. Rw 33, trees beginning 2' from DER, 182' left of centerline, up to 100' AGL/2979' MSL. Trees beginning 6' from DER, 27' right of centerline, up to 100' AGL/2979' MSL.

TARBORO, NC
TARBORO-EDGECOMBE (ETC)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 93173 (FAA)
DEPARTURE PROCEDURE: Rw 27, climb runway heading to 500 before turning.

UNION, SC
UNION COUNTY, TROY SHELTON FIELD (35A)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 13234 (FAA)
TAKEOFF OBSTACLE NOTES: Rw 5, trees beginning 1006' from DER, 20' right of centerline, up to 100' AGL/759' MSL. Rw 23, trees beginning 2115' from DER, 20' left of centerline, up to 100' AGL/679' MSL.
WADESBORO, NC
ANSON COUNTY-JEFF CLOUD FIELD (AFP)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2A 18172 (FAA)
TAKEOFF MINIMUMS: RwY 16, std. w/min. climb of 229’ per NM to 800.
TAKEOFF OBSTACLE NOTES: RwY 16, trees beginning 64’ from DER, 297’ left of centerline, up to 359’ MSL. Terrain beginning 111’ from DER, 376’ right of centerline, up to 68’ AGL/374’ MSL. Transmission line beginning 3035’ from DER, 648’ right of centerline, up to 75’ AGL/389’ MSL. RwY 34, trees beginning 446’ from DER, 10’ right of centerline, up to 384’ MSL. Trees beginning 722’ from DER, 38’ left of centerline, up to 403’ MSL.

WALLACE, NC
HENDERSON FIELD (ACZ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 09071 (FAA)
TAKEOFF MINIMUMS: RwY 9, 300-1 or std. w/min. climb of 389’ per NM to 400.
TAKEOFF OBSTACLE NOTES: RwY 9, trees 2329’ from DER, 462’ left of centerline, 100’ AGL/119’ MSL. Pole 5056’ from DER, 1074’ left of centerline, 183’ AGL/216’ MSL. RwY 27, vehicles on roadway 299’ from DER, 421’ right of centerline, 15’ AGL/54’ MSL. Trees 4916’ from DER, 1296’ left of centerline, 100’ AGL/169’ MSL.

WALNUT COVE, NC
MEADOW BROOK FIELD (N63)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 12320 (FAA)
TAKEOFF MINIMUMS: RwY 16, 500-3 or std. w/min. climb of 324’ per NM to 2000. RwY 34, 600-3 w/min. climb of 229’ per NM to 1400 or 1800-3 for climb in visual conditions.
DEPARTURE PROCEDURE: RwY 16, climb heading 166° to 1400 before proceeding on course. RwY 34, climb heading 001° to 2800 before turning West or for climb in visual conditions: cross Meadow Brook Field airport at or above 2300 before proceeding on course. When executing VCOA, notify ATC prior to departure.
TAKEOFF OBSTACLE NOTES: RwY 16, vehicle on road 428’ from DER, 591’ left of centerline, up to 15’ AGL/674’ MSL. Trees beginning 541’ from DER, 618’ right of centerline, up to 65’ AGL/804’ MSL. Power line 2525’ from DER, 226’ right of centerline, 79’ AGL/716’ MSL. Tank 5738’ from DER, 742’ right of centerline, 157’ AGL/853’ MSL. Terrain 17’ NM from DER, 2265’ right of centerline, 999’ MSL. RwY 34, tree 1071’ from DER, 517’ right of centerline, 100’ AGL/784’ MSL. Trees beginning 1056’ from DER, 844’ left of centerline, up to 65’ AGL/744’ MSL. Trees 1.9 NM from DER, left and right of centerline, up to 100’ AGL/1019’ MSL.

WALTERBORO, SC
LOW COUNTRY RGNL (RBW)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 13122 (FAA)
TAKEOFF OBSTACLE NOTES: RwY 5, 28’ from DER, 125’ left of centerline, 3’ AGL/103’ MSL. Electrical system 29’ from DER, 125’ right of centerline, 2’ AGL/102’ MSL. Pole 139’ from DER, 396’ left of centerline, 4’ AGL/105’ MSL. Trees beginning 1787’ from DER, 242’ right of centerline, up to 54’ AGL/158’ MSL. Trees beginning 1903’ from DER, 230’ left of centerline, up to 54’ AGL/186’ MSL. Trees beginning 2898’ from DER, 488’ right of centerline, up to 75’ AGL/196’ MSL. RwY 9, terrain beginning 51’ from DER, 195’ left of centerline, up to 96’ MSL. RwY 17, trees beginning 1487’ from DER, 441’ right of centerline, up to 106’ AGL/167’ MSL. Trees 157’ from DER, 836’ left of centerline, 117’ AGL/176’ MSL. RwY 23, trees beginning 15’ from DER, 499’ right of centerline, up to 80’ AGL/161’ MSL. Trees beginning 1493’ from DER, 10’ right of centerline, up to 80’ AGL/192’ MSL. Trees beginning 1492’ from DER, 15’ left of centerline, up to 86’ AGL/200’ MSL. RwY 27, tank 4946’ from DER, 151’ right of centerline, 140’ AGL/219’ MSL.

WASHINGTON, NC
WASHINGTON-WARREN (OCW)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1B 19171 (FAA)
TAKEOFF MINIMUMS: RwY 23, 300-1 or std. w/min. climb of 250’ per NM to 300.
DEPARTURE PROCEDURE: Rwys 17, 29, 35, climb runway heading to 400 before turning.
TAKEOFF OBSTACLE NOTES: RwY 5, vehicles on road 223’ from DER, 397’ left of centerline, 53’ MSL. Tree 650’ from DER, 322’ left of centerline, 136’ MSL. Trees beginning 104’ from DER, 575’ left of centerline, up to 146’ MSL. Tree 1825’ from DER, 634’ right of centerline, 155’ MSL. RwY 17, trees beginning 19’ from DER, 374’ right of centerline, up to 108’ MSL. Tree 1774’ from DER, 409’ left of centerline, 103’ MSL. Tree 1885’ from DER, 382’ left of centerline, 112’ MSL. Tree 4174’ from DER, 1230’ left of centerline, 159’ MSL. RwY 23, trees 32’ from DER, 474’ left of centerline, 63’ MSL. Tree 353’ from DER, 391’ right of centerline, 60’ MSL. Tree 529’ from DER, 408’ right of centerline, 61’ MSL. Trees beginning 1455’ from DER, 88’ left of centerline, up to 77’ MSL. Tree 1698’ from DER, 625’ left of centerline, 87’ MSL. Tree 1711’ from DER, 853’ right of centerline, 101’ MSL. Tower 5339’ from DER, 580’ left of centerline, 157’ AGL/170’ MSL. RwY 35, vehicles on road 287’ from DER, 393’ right of centerline, 51’ MSL. Tree 345’ from DER, 437’ right of centerline, 121’ MSL. Tree 799’ from DER, 420’ left of centerline, 106’ MSL. Trees beginning 1206’ from DER, 161’ left of centerline, up to 145’ MSL. Trees beginning 1622’ from DER, 37’ left of centerline, up to 148’ MSL. Tree 2134’ from DER, 565’ right of centerline, 137’ MSL. Tree 2839’ from DER, 335’ right of centerline, 143’ MSL.
TAKEOFF MINIMUMS (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

WAXHAW, NC
JAARS-TOWNSEND (N52)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 09071 (FAA)
TAKEOFF MINIMUMS: Rwy 4, 300-1 or std. w/min. climb of 255' per NM to 900', or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 2200' prior to DER.
TAKEOFF OBSTACLE NOTES: Rwy 4, trees beginning 3' from DER, left and right of centerline, up to 100' AGL/759' MSL. Rwy 22, trees beginning 2' from DER, left and right of centerline, up to 100' AGL/709' MSL.

WHITEVILLE, NC
COLUMBUS COUNTY MUNI (CPC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 09183 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 6, trees beginning 2145' from DER, 553' right of centerline, up to 100' AGL/189' MSL. Trees beginning 2690' from DER, 838' left of centerline, up to 100' AGL/169' MSL. Rwy 24, trees beginning 1706' from DER, 831' right of centerline, up to 100' AGL/209' MSL. Trees beginning 732' from DER, 396' left of centerline, up to 100' AGL/209' MSL.

WILLIAMSTON, NC
MARTIN COUNTY (MCZ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 07214 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 3, trees beginning 158' from DER, 98' right of centerline, up to 100' AGL/172' MSL. Trees beginning 3041' from DER, 168' left of centerline up to 100' AGL/172' MSL. Rwy 21, trees beginning 130' from DER, 57' right of centerline up to 100' AGL/168' MSL. Trees beginning 1393' from DER, 411' left of centerline up to 100' AGL/168' MSL. Vehicle on road 428' from DER, 15' AGL/80' MSL.

WILMINGTON, NC
WILMINGTON INTL(ILM)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 07130 (FAA)
TAKEOFF OBSTACLE NOTES: Rwy 6, tree 2723' from DER, 558' left of centerline 57' AGL/90' MSL. Tree 3201' from DER, 401' right of centerline 73' AGL/110' MSL. Tree 3552' from DER, 643' right of centerline, 78' AGL/118' MSL. Rwy 17, multiple trees beginning 177' from DER, 438' right of centerline, up to 32' AGL/49' MSL. Tree 187' from DER, 545' left of centerline, 24' AGL/41' MSL. Multiple trees beginning 418' from DER, 540' left of centerline, up to 39' AGL/53' MSL. Tree 620' from DER, 246' left of centerline, 24' AGL/38' MSL. Tree 1468' from DER, 684' right of centerline, 66' AGL/83' MSL. Tree 1689' from DER, 592' right of centerline, 52' AGL/69' MSL. Transmission lines 3347' from DER, 1300' left to 1300' right of centerline, 135' AGL/160' MSL. Rwy 24, tree 163' from DER, 454' left of centerline, 61' AGL/75' MSL. Multiple trees beginning 1683' from DER, 277' left of centerline, up to 68' AGL/83' MSL. Rwy 35, trees 1500' from DER, 300' right of centerline, 50' AGL/83' MSL. Funnel 1796' from DER, 882' left of centerline, 57' AGL/90' MSL. Multiple trees beginning 1916' from DER, 138' right of centerline, up to 94' AGL/131' MSL. Multiple trees beginning 2486' from DER, 143' left of centerline, up to 107' AGL/140' MSL.

WILSON, NC
WILSON INDUSTRIAL AIR CENTER (W03)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 18312 (FAA)
DEPARTURE PROCEDURE: Rwys 3, 9, climbing left turn on heading 330° to 2500 before proceeding on course. Rwys 15, 21, climbing right turn on heading 260° to 2500 before proceeding on course. Rwys 27, climbing left turn on heading 260° to 2500 before proceeding on course. Rw 33, climbing heading 338° to 2300 before turning left.
TAKEOFF OBSTACLE NOTES: Rwy 3, trees beginning 140' from DER, 425' right of centerline, up to 174' MSL. Trees beginning 503' from DER, 487' right of centerline, up to 177' MSL. Vegetation 575' from DER, 577' left of centerline, 176' MSL. Trees beginning 600' from DER, 534' right of centerline, up to 178' MSL. Trees beginning 808' from DER, 515' right of centerline, up to 189' MSL. Tree 908' from DER, 724' left of centerline, 196' MSL. Trees beginning 1031' from DER, 605' left of centerline, up to 199' MSL. Trees beginning 1101' from DER, 658' left of centerline, up to 206' MSL. Trees beginning 1182' from DER, 564' left of centerline, up to 209' MSL. Tree 1699' from DER, 687' left of centerline, 211' MSL. Trees beginning 1719' from DER, 568' left of centerline, up to 222' MSL. Trees beginning 1856' from DER, 619' left of centerline, up to 233' MSL. Tree 2194' from DER, 1073' right of centerline, 211' MSL. Tree 2251' from DER, 884' left of centerline, 236' MSL. Tree 2615' from DER, 1103' left of centerline, 243' MSL. Tree 2615' from DER, 400' right of centerline, 222' MSL. Trees beginning 2651' from DER, 549' left of centerline, up to 249' MSL. Rwy 9, tree 9' from DER, 473' left of centerline, 169' MSL. Tree 17' from DER, 265' left of centerline, 170' MSL. Trees beginning 50' from DER, 257' left of centerline, up to 173' MSL. Tree, pole beginning 69' from DER, 70' right of centerline, up to 197' MSL. Tree 283' from DER, 291' left of centerline, 176' MSL. Tree 318' from DER, 534' left of centerline, 177' MSL. Trees beginning 328' from DER, 317' left of centerline, up to 178' MSL. Trees beginning 414' from DER, 90' left of centerline, up to 182' MSL. Trees beginning 418' from DER, 68' left of centerline, up to 184' MSL.
TAKEOFF MINIMUMS (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

WINNSBORO, SC
FAIRFIELD COUNTY (FDW)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 17341 (FAA)
TAKEOFF OBSTACLE NOTES: (Rwy 4, tree 63’ from DER, 468’ right of centerline, 601’ MSL. Tree 883’ from DER, 586’ left of centerline, 605’ MSL. Tree 953’ from DER, 644’ right of centerline, 615’ MSL. Tree 1213’ from DER, 709’ right of centerline, 630’ MSL. Tree 1488’ from DER, 636’ right of centerline, 637’ MSL. Tree 1576’ from DER, 909’ left of centerline, 621’ MSL. Tree 1583’ from DER, 738’ left of centerline, 627’ MSL. Trees, beginning 1659’ from DER, 767’ right of centerline, up to 644’ MSL. Rwy 22, tree 452’ from DER, 547’ right of centerline, 601’ MSL. Trees, beginning 715’ from DER, 536’ right of centerline, up to 610’ MSL. Tree 921’ from DER, 716’ right of centerline, 617’ MSL. Trees, beginning 1185’ from DER, 516’ right of centerline, up to 619’ MSL. Tree 1447’ from DER, 603’ right of centerline, 622’ MSL. Trees, beginning 1607’ from DER, 727’ right of centerline, up to 626’ MSL. Trees, beginning 2102’ from DER, 602’ left of centerline, up to 650’ MSL.)

WINSTON-SALEM, NC
SMITH REYNOLDS (INT)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 6 09015 (FAA)
TAKEOFF MINIMUMS: Rwy 22, 500-2¾ or std. with a min. climb of 330’ per NM to 1600.
TAKEOFF OBSTACLE NOTES: Rwy 4, multiple trees beginning 1014’ from DER, 159’ left of centerline, up to 92’ AGL/1041’ MSL. Multiple trees beginning 2’ from DER, 195’ right of centerline, up to 62’ AGL/1051’ MSL. Rwy 15, bush and multiple trees beginning 109’ from DER, 237’ left of centerline, up to 81’ AGL/960’ MSL. Multiple trees beginning 123’ from DER, 433’ right of centerline, up to 65’ AGL/945’ MSL. Rwy 22, multiple trees beginning 376’ from DER, 136’ left of centerline, up to 65’ AGL/1014’ MSL. Antenna 4538’ from DER, 1044’ left of centerline, up to 189’ AGL/1138’ MSL. Tower 2.1 NM from DER, 2784’ left of centerline, 468’ AGL/1395’ MSL. Antenna on building 2.3 NM from DER, 3230’ left of centerline, 460’ AGL/1376’ MSL. Rwy 33, floodlight, multiple hangars, poles, and trees beginning 230’ from DER, 41’ left of centerline, up to 74’ AGL/1083’ MSL. Pole, windsock, multiple buildings and trees beginning 13’ from DER, 141’ right of centerline, up to 85’ AGL/1084’ MSL.)
NOTE: For turbojet aircraft only.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Rwys 5L, 5R, 23L: RADAR required.
NOTE: Landing northeast: Select Rwy 5L.
NOTE: Expect to receive landing direction (northeast/southwest) from Washington ARTCC; RDU approach will assign landing runway.
NOTE: Landing southwest: Select Rwy 23R.

NOTE: For non-RNP aircraft, expect RADAR vectors to final approach course after BUTTS.

(NARRATIVE ON FOLLOWING PAGE)
ARRIVAL ROUTE DESCRIPTION

HAFNR TRANSITION (HAFNR.ALDAN2)
KPASS TRANSITION (KPASS.ALDAN2)
ROANOKE TRANSITION (ROA.ALDAN2)

From over SBV VORTAC on track 176° to FRAZI, then on track 176° to FAVKO, cross FAVKO at/above 10000 and at/below 12000, then on track 176° to ALDAN, cross ALDAN at/above 10000 and at/below 12000. Then on assigned runway transition.

LANDING RWY 23R: From over ALDAN on track 153° to GAZER, cross GAZER at/above 8000 and at/below 9000, then on track 153° to HARSH, cross HARSH at 8000 and 210K, then on track 153° to BUTTS, cross BUTTS at 6000. Expect RNAV (RNP) approach.

LANDING RWY 23L: From over ALDAN on track 153° to GAZER, cross GAZER at/above 8000 and at/below 9000, then on track 153° to HARSH, cross HARSH at 8000 and 210K, then on track 153° to BUTTS, cross BUTTS at 6000, then on track 153°. Expect RADAR vectors to final approach course.

LANDING RWYS 5L/5R: From over ALDAN on track 176° to FOBAT, then on track 176° to BILLA, then on track 176° to BLNKR, cross BLNKR at 8000 and 210K, then on track 191° to GABL, then on track 224° to HEAVE, then on track 234° to JEMMY, then on track 234°. Expect RADAR vectors to final approach course.
ARRIVAL ROUTE DESCRIPTION

FRANKLIN TRANSITION (FKN.ARGAL6): From over FKN VORTAC on FKN R-249 to DUFFI, then on RDU R-068 to ARGAL. Thence...

HOPEWELL TRANSITION (HPW.ARGAL6): From over HPW VORTAC on HPW R-215 to DUFFI, then on RDU R-068 to ARGAL. Thence...

SALISBURY TRANSITION (SBY.ARGAL6): From over SBY VORTAC on SBY R-213 and CCV R-031 to CCV VORTAC, then on CCV R-236 to DRIVE, then on FKN R-071 to FKN VORTAC, then on FKN R-249 to DUFFI, then on RDU R-068 to ARGAL. Thence...

SNOW HILL TRANSITION (SWL.ARGAL6): From over SWL VORTAC on SWL R-219 and CCV R-041 to CCV VORTAC, then on CCV R-236 to DRIVE, then on FKN R-071 to FKN VORTAC, then on FKN R-249 to DUFFI, then on RDU R-068 to ARGAL. Thence...

...from over ARGAL on RDU R-068 to RDU VORTAC. Expect RADAR vectors to final approach course after ARGAL.
ARRIVAL ROUTE DESCRIPTION

KINSTON TRANSITION (ISO.BLOGS2)
TAR RIVER TRANSITION (TYI.BLOGS2)
WILMINGTON TRANSITION (ILM.BLOGS2)

From over BLOGS on track 309° to CABED, cross CABED at/above 8000 and at/below 9000. Thence on assigned runway transition.

LANDING RWYS 5L/5R: From over CABED on track 311° to ORLAC, cross ORLAC at 8000 and at 210K, then on track 294° to TIIME, then on track 245° to STINT, then on track 234° to TOYER, then on track 234°. Expect RADAR vectors to final approach course.

LANDING RWYS 23L/23R: From over CABED on track 319° to AGOLE, cross AGOLE at/above 8000, then on track 319° to SULIE, then on track 340° to TIBIA, cross TIBIA at 6000 and at 210K, then on track 054° to UNCUT, then on track 054°. Expect RADAR vectors to final approach course.

NOTE: Chart not to scale.
WENDI
N35°43.19' 
W78°24.34'
TURBOJET VERTICAL NAVIGATION
PLANNING INFORMATION
Expect 9000

RALEIGH-DURHAM
117.2 RDU
Chan 119
N35°52.35' - W78°47.00'

BRADE
N35°38.98'
W78°13.99'
TURBOJET VERTICAL NAVIGATION
PLANNING INFORMATION
Expect 11000 250K

RALEIGH-DURHAM INTL
RALEIGH/DURHAM, NORTH CAROLINA

ARIVAL ROUTE DESCRIPTION

KINSTON TRANSITION (ISO.BRADE6): From over ISO VORTAC on ISO R-302 to BRADE, thence . . . .

TAR RIVER TRANSITION (TYI.BRADE6): From over TYI VORTAC on TYI R-238 to BRADE, thence . . . .

WILMINGTON TRANSITION (ILM.BRADE6): From over ILM VORTAC on ILM R-012 to TILTZ, then on ISO R-302 to BRADE, thence . . . .

. . . . from over BRADE on RDU R-125 to RDU VORTAC. Expect RADAR vectors to final approach course after WENDI.

NOTE: Chart not to scale.

NOTE: RADAR required.
NOTE: DME required.

RALEIGH/DURHAM INTL (RDU)
RALEIGH-DURHAM, NORTH CAROLINA
BUZZY EIGHT ARRIVAL

ARRIVAL ROUTE DESCRIPTION

COLUMBIA TRANSITION (CAE.BUZZY8): From over CAE VORTAC on CAE R-043 and SDZ R-225 to SDZ VORTAC, then on SDZ R-033 to BUZZY.

. . . . Thence on RALEIGH/DURHAM VORTAC R-242 to RDU. Expect RADAR vectors to final approach course after BUZZY.
NOTE: Chart not to scale.

NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.
NOTE: Rwys 5L/5R: RADAR required for non-GPS equipped aircraft.
NOTE: Rwys 23L/23R: RADAR required.
NOTE: LANDING NORTHEAST: Select Rwy 5R.
LANDING SOUTHWEST: Select Rwy 23L.
Expect to receive landing direction (northeast/southwest) from Washington ARTCC; RDU approach will assign landing runway.

See following page for arrival routes

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

From ARGAL on track 248° to cross KAROO between 8000 and 12000.

**LANDING RWYS 5L/R:** From KAROO on track 248° to MUFLY, then on track 231° to cross NEWIE at 8000 and at 210K, then on track 224° to OCHRE, then on track 234° to STINT, then on track 234° to TOYER, then on track 234°. Expect RADAR vectors to final approach course.

**LANDING RWYS 23L/R:** From KAROO on track 259° to cross LEASA between 6000 and 8000, then on track 261° to cross PAINS at 6000 and at 230K. Expect RNAV (RNP) approach.

NOTE: Chart not to scale.
(MALNR.MALNR4) 18256
MALNR FOUR ARRIVAL (RNAV) Transition Routes

D-ATIS
123.8
RALEIGH APP CON
128.3 307.9

NOTE: Chart not to scale.

See following page for Arrival Routes

Transition Routes

MALNR 11000 250K

SMIRF FL210

JURDI FL230

ETBUY

HOGIL

FLORENCE FLO

PETTO

PYRES

TREAL

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.
NOTE: FLORENCE TRANSITION: Assigned by ATC only.

TRANSPORTATION

(CONTINUED ON FOLLOWING PAGE)
(NARRATIVE ON FOLLOWING PAGE)

FLORENCE TRANSITION (FLO.MALNR4)
PETTO TRANSITION (PETTO.MALNR4)
PYRES TRANSITION (PYRES.MALNR4)
TREAL TRANSITION (TREAL.MALNR4)

NOTE: Chart not to scale.
**Arrival Route Description**

From MALNR on track 039° to cross BUZZY between 10000 and 16000 and at 250K, then on track 062° to RASKL.

**LANDING RWYS 5L/5R:** From RASKL on track 067° to cross NEDIE between 6000 and 8000, then on track 068° to cross OTTOS at 6000 and at 230K. Expect RNAV (RNP) approach or RADAR vectors to final approach course.

**LANDING RWY 23L:** From RASKL on track 063° to cross WISPY at or below 12000, then on track 063° to cross CAKEY at 8000 and at 210K, then on track 098° to JODUS, then on track 073° to KENCH, then on track 054° to LEZZY, then on track 054°. Expect RADAR vectors to final approach course.

**LANDING RWY 23R:** From RASKL on track 063° to cross WISPY at or below 12000, then on track 063° to cross CAKEY at 8000 and at 210K, then on track 019° to FRETO, then on track 032° to GLEYS, then on track 054° to JOLTY, then on track 054°. Expect RADAR vectors to final approach course.

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

GORDONSVILLE TRANSITION (GVE.SBV6): From over GVE VORTAC on GVE R-213 and SBV R-032 to SBV VORTAC. Thence . . .

PULASKI TRANSITION (PSK.SBV6): From over PSK VORTAC on PSK R-100 to TABER, then on SBV R-300 to SBV VORTAC. Thence . . .

ROANOKE TRANSITION (ROA.SBV6): From over ROA VOR/DME on ROA R-132 and SBV R-314 to SBV VORTAC. Thence . . .

. . . from over SBV VORTAC on SBV R-172 and RDU VORTAC R-356 to RDU VORTAC.

For arrivals to KRDU, KLHZ, KJNX, and KTTA airports: Expect RADAR vectors to final approach course after BILLA.

For arrivals to KHNZ and KTDF airports: Expect RADAR vectors to final approach course after ALDAN.