

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

AIRPORT	AIRPORT ID	CITY	STATE	AMDT NO	ACTUAL EFFECTIVE DATE
DILLANT-HOPKINS	KEEN	KEENE	NH	6	

TAKEOFF MINIMUMS:

RWY 02: STANDARD WITH MINIMUM CLIMB OF 360 FT PER NM TO 2100 OR 2800-3 FOR VCOA.
RWY 14: 900-3 WITH MINIMUM CLIMB OF 450 FT PER NM TO 4000 OR 2800-3 FOR VCOA.
RWY 20: 300-1 WITH MINIMUM CLIMB OF 340 FT PER NM TO 4300 OR 2800-3 FOR VCOA.
RWY 32: 700-2 3/4 WITH MINIMUM CLIMB OF 280 FT PER NM TO 2700 OR 2800-3 FOR VCOA.

TEXTUAL DEPARTURE PROCEDURES:

RWY 02: CLIMBING LEFT TURN HEADING 353.24 TO 2100 BEFORE PROCEEDING ON COURSE.
RWY 14: CLIMB ON HEADING 142.08 TO 4200 BEFORE PROCEEDING ON COURSE.
RWY 20: CLIMB ON HEADING 198.24 TO 2000 BEFORE TURNING LEFT.
RWY 32: CLIMBING RIGHT TURN HEADING 350.00 TO 2100 BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

RWY 02, 14, 20, 32: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS DILLANT-HOPKINS AIRPORT AT OR ABOVE 3100 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 02, BUSHES, BEGINNING 472 FT FROM DER, 75 FT RIGHT OF CENTERLINE, UP TO 88 FT AGL/582 FT MSL. TREES BEGINNING 603 FT FROM DER, 57 FT RIGHT OF CENTERLINE, UP TO 93 FT AGL/586 FT MSL. POLE 1062 FT FROM DER, 23 FT RIGHT OF CENTERLINE, UP TO 53 FT AGL/545 FT MSL. TREES BEGINNING 1097 FT FROM DER, 182 FT LEFT OF CENTERLINE, UP TO 69 FT AGL/559 FT MSL. TREES BEGINNING 1576 FT FROM DER, 10 FT LEFT OF CENTERLINE, UP TO 109 FT AGL/593 FT MSL. TREES BEGINNING 1774 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 100 FT AGL/579 FT MSL. TREES 1.4 NM FROM DER, 2838 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/1099 FT MSL.

NOTE: RWY 14, BUILDING, BEGINNING ABEAM DER, 108 FT RIGHT OF CENTERLINE, UP TO 21 FT AGL/495 FT MSL. POLE, TREES BEGINNING 129 FT FROM DER, 133 FT LEFT OF CENTERLINE, UP TO 56 FT AGL/534 FT MSL. VEHICLE ON ROAD BEGINNING 229 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 494 FT MSL. TREES 494 FT FROM DER, 125 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/573 FT MSL. TREES BEGINNING 604 FT FROM DER, 81 FT RIGHT OF CENTERLINE, UP TO 45 FT AGL/518 FT MSL. TREES BEGINNING 1039 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 100 FT AGL/573 FT MSL. POLE, TREES 1083 FT FROM DER, 67 FT RIGHT OF CENTERLINE, UP TO 82 FT AGL/561 FT MSL. POLE, TREES 1189 FT FROM DER, 94 FT LEFT OF CENTERLINE, UP TO 89 FT AGL/566 FT MSL. TREES BEGINNING 1326 FT FROM DER, 54 FT RIGHT OF CENTERLINE, UP TO 96 FT AGL/577 FT MSL. TREES BEGINNING 1469 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 108 FT AGL/588 FT MSL. TREES BEGINNING 1746 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 117 FT AGL/603 FT MSL. POLE, TREES BEGINNING 4667 FT FROM DER, 1 FT LEFT OF CENTERLINE, UP TO 67 FT AGL/729 FT MSL. POLE, TREES BEGINNING 1.3 NM FROM DER, 4 FT LEFT OF CENTERLINE, UP TO 61 FT AGL/1050 FT MSL. TREE 2.1 NM FROM DER, 3816 FT LEFT OF CENTERLINE, 100 FT AGL/1319 FT MSL.

NOTE: RWY 20, TREES 45 FT FROM DER, 411 FT RIGHT OF CENTERLINE, UP TO 25 FT AGL/497 FT MSL. TREES BEGINNING 556 FT FROM DER, 629 FT RIGHT OF CENTERLINE, UP TO 94 FT AGL/556 FT MSL. POLES BEGINNING 1024 FT FROM DER, 646 FT LEFT OF CENTERLINE, UP TO 36 FT AGL/529 FT MSL. TREES, POLE BEGINNING 1761 FT FROM DER, 369 FT LEFT OF CENTERLINE, UP TO 104 FT AGL/614 FT MSL. TREES 2099 FT FROM DER, 745 FT LEFT OF CENTERLINE, UP TO 103 FT AGL/622 FT MSL. POLE, TREES BEGINNING 2326 FT FROM DER, 345 FT LEFT OF CENTERLINE, UP TO 103 FT AGL/623 FT MSL. TREES BEGINNING 2553 FT FROM DER, 768 FT RIGHT OF CENTERLINE, UP TO 88 FT AGL/583 FT MSL. TREES BEGINNING 2763 FT FROM DER, 704 FT LEFT OF CENTERLINE, UP TO 104 FT AGL/646 FT MSL. TREES BEGINNING 2950 FT FROM DER, 1014 FT RIGHT OF CENTERLINE, UP TO 98 FT AGL/594 FT MSL. TREES BEGINNING 3127 FT FROM DER, 543 FT LEFT OF CENTERLINE, UP TO 106 FT AGL/665 FT MSL. VEGETATION BEGINNING 3504 FT FROM DER, 1034 FT LEFT OF CENTERLINE, UP TO 114 FT AGL/665 FT. TRANSMISSION LINES 4780 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 52 FT AGL/630 FT MSL.

NOTE: RWY 32, TREES BEGINNING 212 FT FROM DER, 232 FT RIGHT OF CENTERLINE, UP TO 24 FT AGL/493 FT MSL. TREES 357 FT FROM DER, 264 FT LEFT OF CENTERLINE, 26 FT AGL/493 FT MSL. TREES BEGINNING 685 FT FROM DER, 293 FT LEFT OF CENTERLINE, UP TO 32 FT AGL/499 FT MSL. TREES BEGINNING 741 FT FROM DER, 43 FT RIGHT OF CENTERLINE, UP TO 89 FT AGL/560 FT MSL. VEHICLE ON ROAD 788 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, 492 FT MSL. TREES BEGINNING 1551 FT FROM DER, 403 FT LEFT OF CENTERLINE, UP TO 64 FT AGL/531 FT MSL. TREES BEGINNING 1785 FT FROM DER, 263 FT LEFT OF CENTERLINE, UP TO 64 FT AGL/533 FT MSL. TREES BEGINNING 2005 FT FROM DER, 28 FT LEFT OF CENTERLINE, UP TO 90 FT AGL/559 FT MSL. TRANSMISSION LINE, TREES BEGINNING 2066 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 70 FT AGL/543 FT MSL.

CONTROLLING OBSTACLES:

RWY 02: 899 FT MSL TREE 425547.27N/0721534.22W (CLIMB GRADIENT), 1692 FT MSL TOWER 430022.70N/0721659.00W (CLIMB-TO ALTITUDE).
RWY 14: 2740 FT MSL AAO 425111.00N/0720628.00W (CLIMB GRADIENT), 3340 FT MSL AAO 425141.90N/0720630.83W (CLIMB-TO ALTITUDE), 1319 FT MSL TREE 425312.50N/0721312.00W (CEILING, VISIBILITY).
RWY 20: 3340 FT MSL AAO 425141.90N/0720630.83W (CLIMB GRADIENT, CLIMB-TO ALTITUDE), 665 FT MSL VEGETATION 425239.16N/0721602.56W (CEILING), 661 FT MSL VEGETATION 425237.96N/0721604.03W (VISIBILITY).
RWY 32: 1580 FT MSL AAO 425815.00N/0722139.00W (CLIMB GRADIENT), 3340 FT MSL AAO 425141.90N/0720630.83W (CLIMB-TO ALTITUDE), 1099 FT

AIRPORT	AIRPORT ID	CITY	STATE	AMDT NO	EFFECTIVE DATE
DILLANT-HOPKINS	KEEN	KEENE	NH	6	

MSL TREE 425521.00N/0721921.50W. (CEILING, VISIBILITY).

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 02: 1180 FT MSL TOWER 425540.50N/0721521.50W, RWY 14, 20: 3340 FT MSL AAO 425141.90N/0720630.83W, RWY 32: 1459 FT MSL TREE 425455.00N/0721949.00W.

VISUAL CLIMB AREA OBSTACLE: 1660 FT MSL AAO, 425619.00N/0721154.00.

OBSTACLE OUTSIDE VISUAL CLIMB AREA MANDATING VCOA CLIMB TO ALTITUDE: 3340 FT MSL AAO 425141.90N/0720630.83W.

REMARKS:

FLIGHT INSPECTED BY	<i>Digitally signed by</i> JOHN BORDY	OFFICE	DATE
GALEN W COLLINS	Apr 01, 2021	FICO	3/30/2021

DEVELOPED BY	<i>Digitally signed by</i> RALPH DUMAR	OFFICE	DATE
RALPH DUMAR	Mar 12, 2021	AJV-A422	02/17/2021

APPROVED BY	<i>Digitally signed by</i> JOHN BORDY	OFFICE	DATE	TITLE
MARLON ROBINSON	Apr 01, 2021	AJV-A420		MANAGER

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A ☐ **ALPA** ☐ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZBW, ARPT MGR

CHANGES - REASONS:

TAKEOFF MINIMUMS:

1. CHANGED RWY 2 FROM '1200-2' TO 'STANDARD WITH MINIMUM CLIMB OF 360 FT PER NM TO 2100 OR 2800-3 FOR VCOA.' - NEW ROUTING INSTRUCTIONS AND CONTROLLING OBSTACLES. VCOA REQUESTED BY ATC/FPT PER FAAO 8260.46G TABLE 2-1-1.
 2. CHANGED RWY 14 FROM '2200-2 OR STANDARD WITH A MINIMUM CLIMB OF 450 FT PER NM TO 2500' TO '900-3 WITH MINIMUM CLIMB OF 450 FT PER NM TO 4000 OR 2800-3 FOR VCOA' - NEW ROUTING INSTRUCTIONS AND CONTROLLING OBSTACLES. VCOA REQUESTED BY ATC/FPT PER FAAO 8260.46G TABLE 2-1-1.
 3. CHANGED RWY 20 FROM '1000-2 OR STANDARD WITH A MINIMUM CLIMB OF 320 FT PER NM TO 1700' TO '300-1 WITH MINIMUM CLIMB OF 340 FT PER NM TO 4300 OR 2800-3 FOR VCOA' - NEW ROUTING INSTRUCTIONS AND CONTROLLING OBSTACLES. VCOA REQUESTED BY ATC/FPT PER FAAO 8260.46G TABLE 2-1-1.
 4. CHANGED RWY 32 FROM '1600-2' TO '700-2 3/4 WITH MINIMUM CLIMB OF 280 FT PER NM TO 2700 OR 2800-3 FOR VCOA' - NEW ROUTING INSTRUCTIONS AND CONTROLLING OBSTACLES. VCOA REQUESTED BY ATC/FPT PER FAAO 8260.46G TABLE 2-1-1.
- ##### TEXTUAL DEPARTURE PROCEDURES:
5. CHANGED RWY 2 FROM 'CLIMB RWY HEADING TO 2100, THEN CLIMBING LEFT TURN TO ASSIGNED ALTITUDE DIRECT EEN VORTAC BEFORE PROCEEDING ON COURSE' TO 'CLIMBING LEFT TURN HEADING 353.24 TO 2100 BEFORE PROCEEDING ON COURSE' - EEN VORTAC SCHEDULED FOR DECOMMISSION PER VOR MON INITIATIVE.
 6. CHANGED RWY 14 FROM 'CLIMB RWY HEADING TO 2500, THEN CLIMBING RIGHT TURN TO ASSIGNED ALTITUDE DIRECT EEN VORTAC BEFORE PROCEEDING ON COURSE' TO 'CLIMB ON HEADING 142.08 TO 4200 BEFORE PROCEEDING ON COURSE' - EEN VORTAC SCHEDULED FOR DECOMMISSION PER VOR MON INITIATIVE.
 7. CHANGED RWY 20 FROM 'CLIMB DIRECT EEN VORTAC UNTIL PASSING 3000, IF NOT 3000 OR ABOVE AT EEN VORTAC CLIMB IN EEN HOLDING PATTERN; HOLD NE, RT, 215 INBOUND BEFORE PROCEEDING ON COURSE' TO 'CLIMB ON HEADING 198.24 TO 2000 BEFORE TURNING LEFT' - EEN VORTAC SCHEDULED FOR DECOMMISSION PER VOR MON INITIATIVE.
 8. CHANGED RWY 32 FROM 'CLIMBING RIGHT TURN HEADING 350 TO 2100, THEN CLIMBING LEFT TURN TO ASSIGNED ALTITUDE DIRECT EEN VORTAC BEFORE PROCEEDING ON COURSE' TO 'CLIMBING RIGHT TURN HEADING 350.00 TO 2100 BEFORE PROCEEDING ON COURSE' - EEN VORTAC SCHEDULED FOR DECOMMISSION PER VOR MON INITIATIVE.
 9. ADDED VCOA CLIMBING INSTRUCTIONS - REQUESTED BY ATC/FPT PER FAAO 8260.46G TABLE 2-1-1.
 10. UPDATED TAKEOFF OBSTACLE NOTES FOR RWY 02 AND 32. ADDED TAKEOFF OBSTACLE NOTES FOR RWY 14 AND 20 - PER TARGETS ANALYSIS, DEPARTURE OBSTACLE GROUPER AND SPECIALIST ASSESSMENT.
 11. UPDATED CONTROLLING OBSTACLES AND OBSTACLES MANDATING ODP ROUTE DEVELOPMENT - NEW ROUTES DEVELOPED DUE TO EEN VORTAC DECOMMISSIONING.

QUALITY
5
CHECKED