

**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 ID	CITY	STATE	AMDT NO	ACTUAL EFFECTIVE DATE
135	HARLAN	KY	1	8 AUGUST 2024

TAKEOFF MINIMUMS:

RWY 8: 300-1 WITH MINIMUM CLIMB OF 460 FT/NM TO 4100, OR 3000-3 FOR VCOA.
RWY 26: 300-1 WITH MINIMUM CLIMB OF 450 FT/NM TO 3600, OR 3000-3 FOR VCOA.

TEXTUAL DEPARTURE PROCEDURES:

RWY 8: CLIMB ON HEADING 080.17 TO 3900 BEFORE PROCEEDING ON COURSE.
RWY 26: CLIMB ON HEADING 250.18 TO 2300 BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

ALL RUNWAYS: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS TUCKER-GUTHRIE MEMORIAL AIRPORT AT OR ABOVE 4400 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 8: TREES BEGINNING 5 FT FROM DER, 9 FT RIGHT OF CENTERLINE, UP TO 1610 FT MSL.
TREES BEGINNING 62 FT FROM DER, 94 FT LEFT OF CENTERLINE, UP TO 1584 FT MSL.
TREE 184 FT FROM DER, 383 FT LEFT OF CENTERLINE, 1619 FT MSL.
TREES BEGINNING 233 FT FROM DER, 39 FT LEFT OF CENTERLINE, UP TO 1628 FT MSL.
TREES BEGINNING 363 FT FROM DER, 24 FT LEFT OF CENTERLINE, UP TO 1667 FT MSL.
TREES BEGINNING 564 FT FROM DER, 7 FT RIGHT OF CENTERLINE, UP TO 1622 FT MSL.
TREE 727 FT FROM DER, 164 FT RIGHT OF CENTERLINE, 1630 FT MSL.
TREES BEGINNING 729 FT FROM DER, 19 FT RIGHT OF CENTERLINE, UP TO 1647 FT MSL.
TREES BEGINNING 925 FT FROM DER, 74 FT RIGHT OF CENTERLINE, UP TO 1694 FT MSL.
TREES BEGINNING 1085 FT FROM DER, 26 FT RIGHT OF CENTERLINE, UP TO 1704 FT MSL.
TREES BEGINNING 1149 FT FROM DER, 117 FT RIGHT OF CENTERLINE, UP TO 1706 FT MSL.
TREES BEGINNING 1278 FT FROM DER, 184 FT RIGHT OF CENTERLINE, UP TO 1747 FT MSL.
TREES BEGINNING 1850 FT FROM DER, 249 FT RIGHT OF CENTERLINE, UP TO 1759 FT MSL.
TREES BEGINNING 1963 FT FROM DER, 24 FT RIGHT OF CENTERLINE, UP TO 1766 FT MSL.
TREE 3418 FT FROM DER, 1039 FT LEFT OF CENTERLINE, 1687 FT MSL.
TREES BEGINNING 3446 FT FROM DER, 1230 FT LEFT OF CENTERLINE, UP TO 1709 FT MSL.
TREES BEGINNING 3548 FT FROM DER, 780 FT LEFT OF CENTERLINE, UP TO 1739 FT MSL.
TREES BEGINNING 3671 FT FROM DER, 544 FT LEFT OF CENTERLINE, UP TO 1801 FT MSL.
TREES BEGINNING 3767 FT FROM DER, 689 FT RIGHT OF CENTERLINE, UP TO 1775 FT MSL.
TREES BEGINNING 3814 FT FROM DER, 809 FT RIGHT OF CENTERLINE, UP TO 1786 FT MSL.
TREES BEGINNING 3905 FT FROM DER, 267 FT LEFT OF CENTERLINE, UP TO 1808 FT MSL.
WATER TOWER, TREE BEGINNING 3939 FT FROM DER, 577 FT RIGHT OF CENTERLINE, UP TO 59 FT AGL/1789 FT MSL.
TREES BEGINNING 3963 FT FROM DER, 467 FT RIGHT OF CENTERLINE, UP TO 1818 FT MSL.
TREE 1.6 NM FROM DER, 2921 FT LEFT OF CENTERLINE, 1839 FT MSL.
TREE 1.7 NM FROM DER, 2677 FT RIGHT OF CENTERLINE, 1871 FT MSL.
TREES BEGINNING 1.8 NM FROM DER, 2347 FT RIGHT OF CENTERLINE, UP TO 1980 FT MSL.
TREE 1.8 NM FROM DER, 3428 FT LEFT OF CENTERLINE, 1897 FT MSL.
TREES, TRANSMISSION LINE BEGINNING 1.9 NM FROM DER, 1263 FT RIGHT OF CENTERLINE, UP TO 2098 FT MSL.
TREES, POLE BEGINNING 1.9 NM FROM DER, 3305 FT LEFT OF CENTERLINE, UP TO 2002 FT MSL.
TREES BEGINNING 2 NM FROM DER, 983 FT RIGHT OF CENTERLINE, UP TO 2187 FT MSL.
TREES BEGINNING 2.1 NM FROM DER, 2331 FT RIGHT OF CENTERLINE, UP TO 2237 FT MSL.
TREES BEGINNING 2.2 NM FROM DER, 1070 FT RIGHT OF CENTERLINE, UP TO 2268 FT MSL.
TREES BEGINNING 2.2 NM FROM DER, 3934 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/2043 FT MSL.
TREES BEGINNING 2.4 NM FROM DER, 4280 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/2049 FT MSL.
TREE 2.5 NM FROM DER, 963 FT RIGHT OF CENTERLINE, 2051 FT MSL.

NOTE: RWY 26: TREE 60 FT FROM DER, 249 FT RIGHT OF CENTERLINE, 1560 FT MSL.
TREE 97 FT FROM DER, 239 FT LEFT OF CENTERLINE, 1540 FT MSL.
TREES BEGINNING 1806 FT FROM DER, 812 FT RIGHT OF CENTERLINE, UP TO 1612 FT MSL.
TREES BEGINNING 1922 FT FROM DER, 167 FT RIGHT OF CENTERLINE, UP TO 1630 FT MSL.
TREES BEGINNING 2021 FT FROM DER, 147 FT LEFT OF CENTERLINE, UP TO 1607 FT MSL.
TREE 2119 FT FROM DER, 809 FT RIGHT OF CENTERLINE, 1670 FT MSL.
TREES BEGINNING 2140 FT FROM DER, 11 FT RIGHT OF CENTERLINE, UP TO 1713 FT MSL.
TREES BEGINNING 2293 FT FROM DER, 83 FT RIGHT OF CENTERLINE, UP TO 1736 FT MSL.
TREES BEGINNING 2395 FT FROM DER, 146 FT RIGHT OF CENTERLINE, UP TO 1745 FT MSL.
TREES BEGINNING 2589 FT FROM DER, 19 FT RIGHT OF CENTERLINE, UP TO 1775 FT MSL.
TREES, POLE, ANTENNA BEGINNING 2823 FT FROM DER, ON CENTERLINE, UP TO 1789 FT MSL.
TREES BEGINNING 3340 FT FROM DER, 108 FT LEFT OF CENTERLINE, UP TO 1637 FT MSL.
TREE 4527 FT FROM DER, 15 FT LEFT OF CENTERLINE, 1656 FT MSL.
TREE 4945 FT FROM DER, 29 FT LEFT OF CENTERLINE, 1701 FT MSL.
TREES BEGINNING 5137 FT FROM DER, 72 FT LEFT OF CENTERLINE, UP TO 1711 FT MSL.



AIRPORT ID
I35

CITY
HARLAN

STATE
KY

AMDT NO
1

ACTUAL EFFECTIVE DATE
8 AUGUST 2024

TREES BEGINNING 1 NM FROM DER, 1252 FT RIGHT OF CENTERLINE, UP TO 1796 FT MSL.
TREES BEGINNING 1.2 NM FROM DER, 2233 FT RIGHT OF CENTERLINE, UP TO 1820 FT MSL.
TREES BEGINNING 1.3 NM FROM DER, 1887 FT RIGHT OF CENTERLINE, UP TO 1833 FT MSL.
TREES BEGINNING 1.5 NM FROM DER, 1737 FT RIGHT OF CENTERLINE, UP TO 2052 FT MSL.
TOWER, ANTENNA 1.5 NM FROM DER, 1292 FT LEFT OF CENTERLINE, UP TO 343 FT AGL/1802 FT MSL.
TREES BEGINNING 1.8 NM FROM DER, 2429 FT RIGHT OF CENTERLINE, UP TO 2136 FT MSL.
TREES BEGINNING 2.1 NM FROM DER, 1658 FT RIGHT OF CENTERLINE, UP TO 2231 FT MSL.
TREES BEGINNING 2.2 NM FROM DER, 1997 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/2325 FT MSL.
TREES, TRANSMISSION LINE BEGINNING 2.3 NM FROM DER, 3798 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/2364 FT MSL.
TREES BEGINNING 2.4 NM FROM DER, 1561 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/2368 FT MSL.

CONTROLLING OBSTACLES:

RWY 8: 3271 FT MSL AAO 365236.00N/0831509.00W (CLIMB GRADIENT), 3527 FT MSL AAO 365257.00N/0831354.00W (CLIMB-TO ALTITUDE), 1747 FT MSL TREE 365136.76N/0832053.35W (CEILING) (VISIBILITY).
RWY 26: 3373 FT MSL AAO 364709.00N/0832818.00W (CLIMB-TO ALTITUDE), 2136 FT MSL TREE 365135.92N/0832411.80W (CLIMB GRADIENT), 1775 FT MSL TREE 365131.31N/0832224.55W (CEILING) (VISIBILITY).
OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 8, 26: 3815 FT MSL TOWER 364800.00N/0832236.00W.
VISUAL CLIMB AREA OBSTACLE: 3815 FT MSL TOWER (21-001701) 364700.00N/0832236.00W.

REMARKS:

RWY 26 HEADING IS 10 DEGREES LEFT OF CENTERLINE DUE TO 2726 MSL AAO AT 365136.00N/0832600.00W IN ORDER TO REDUCE REQUIRED CG FROM 496 FT/NM TO 450 FT/NM.
RAPIDLY RISING/PRECIPITOUS TERRAIN IN VICINITY OF AIRPORT.
RWY 8/26 VCOA PRECIPITOUS TERRAIN ADJUSTMENT: 158 FT.

FLIGHT INSPECTED BY
GEORGE E SEARLES

Digitally signed by
CASEY D HILL

OFFICE
FPO
DATE
06/13/2024

DEVELOPED BY
JOSHUA LEETE

Digitally signed by
JOSHUA LEETE
Jan 16, 2024

OFFICE
AJV-A422
DATE
01/16/2024

APPROVED BY
RAKE MCGRAW

Digitally signed by
CASEY D HILL
Jun 17, 2024

OFFICE
AJV-A422
DATE
03/21/2024
TITLE
MANAGER

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA**

OTHER: ZID, AMGR

CHANGES - REASONS:

1. CHANGED RWY 8 TAKEOFF MINIMUMS FROM "STANDARD WITH MINIMUM CLIMB OF 470 FT PER NM TO 3200, OR 2800-3 FOR VCOA" TO "300-1 WITH MINIMUM CLIMB OF 460 FT/NM TO 4100 OR 3000-3 FOR VCOA" - NEW CONTROLLING OBSTACLES.
2. CHANGED RWY 26 TAKEOFF MINIMUMS FROM "1000-3 WITH MINIMUM CLIMB OF 430 FT PER NM TO 3000, OR 2800-3 FOR VCOA" TO "300-1 WITH MINIMUM CLIMB OF 450 FT/NM TO 3600, OR 3000-3 FOR VCOA" - NEW CONTROLLING OBSTACLES.
3. CHANGED VISUAL CLIMB OVER AIRPORT INSTRUCTIONS FROM "RWY 8, 26: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS TUCKER-GUTHERIE MEMORIAL AT OR ABOVE 4200 FT BEFORE PROCEEDING ON COURSE" TO "ALL RUNWAYS: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS TUCKER-GUTHRIE MEMORIAL AIRPORT AT OR ABOVE 4400 FEET BEFORE PROCEEDING ON COURSE" - NEW CONTROLLING OBSTACLE/VERBIAGE UPDATED IAW 8260.46J/AIRPORT NAME SPELLING CORRECTED.
4. CHANGED RWY 8 TEXTUAL DEPARTURE FROM "CLIMB ON HEADING 080.17 TO 4200 BEFORE PROCEEDING ON COURSE" TO "CLIMB ON HEADING 080.17 TO 3900 BEFORE PROCEEDING ON COURSE" - NEW CONTROLLING OBSTACLES/CLIMB GRADIENTS.
5. CHANGED RWY 26 TEXTUAL DEPARTURE FROM "CLIMB ON HEADING 250.18 TO 4200 BEFORE PROCEEDING ON COURSE" TO "CLIMB ON HEADING 250.18 TO 2300 BEFORE PROCEEDING ON COURSE" - NEW CONTROLLING OBSTACLES/CLIMB GRADIENTS.
6. UPDATED TAKEOFF OBSTACLE NOTES - NEW SURVEY DATA.
7. UPDATED RWY 8/26 OBSTACLES MANDATING ODP ROUTE DEVELOPMENT - NEW SURVEY DATA.
8. CHANGED REASON FOR RWY 26 10 DEGREE OFFSET FROM "RWY 26 HEADING IS 10 DEGREES LEFT OF CL TO REDUCE CG FROM 497 TO 430" TO "RWY 26 HEADING IS 10 DEGREES LEFT OF CENTERLINE DUE TO 2726 MSL AAO AT 365136.00N/0832600.00W IN ORDER TO REDUCE REQUIRED CG FROM 496 FT/NM TO 450 FT/NM" IN REMARKS - FURTHER CLARIFICATION.
9. ADDED "RWY 8/26 VCOA PRECIPITOUS TERRAIN ADJUSTMENT: 158 FT" TO REMARKS - PROCEDURE WITHIN PRECIPITOUS TERRAIN.

