

**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.

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>	<u>AMDT NO</u>	<u>ACTUAL EFFECTIVE DATE</u>
KBKL	CLEVELAND	OH	7A	7 SEPTEMBER 2023

TAKEOFF MINIMUMS:

RWY 6L: 300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 220 FT/NM TO 900.
RWY 6R: 300-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 290 FT/NM TO 1000. NA WHEN TOWER IS CLOSED.
RWY 24L: 400-1 3/8 OR STANDARD WITH MINIMUM CLIMB OF 757 FT/NM TO 1000. NA WHEN TOWER IS CLOSED.
RWY 24R: 300-1 OR STANDARD WITH MINIMUM CLIMB OF 490 FT/NM TO 900.

TEXTUAL DEPARTURE PROCEDURES:

RWY 6L: CLIMBING LEFT TURN TO 2000 ON HEADING 350.00 TO INTERCEPT CXR VOR/DME R-286 TO CRIBS INT BEFORE PROCEEDING ON COURSE.
RWY 6R: CLIMBING LEFT TURN TO 2000 ON HEADING 350.00 TO INTERCEPT CXR VOR/DME R-286 TO CRIBS INT BEFORE PROCEEDING ON COURSE.
RWY 24L: CLIMBING RIGHT TURN TO 2000 ON HEADING 350.00 TO INTERCEPT CXR VOR/DME R-286 TO CRIBS INT BEFORE PROCEEDING ON COURSE.
RWY 24R: CLIMBING RIGHT TURN TO 2000 ON HEADING 350.00 TO INTERCEPT CXR VOR/DME R-286 TO CRIBS INT BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 6L: LIGHT POLE 9 FT FROM DER, 54 FT LEFT OF CENTERLINE, 2 FT AGL/584 FT MSL.
LIGHT POLE, SIGN BEGINNING 9 FT FROM DER, 55 FT RIGHT OF CENTERLINE, UP TO 2 FT AGL/584 FT MSL.
TREE 842 FT FROM DER, 720 FT RIGHT OF CENTERLINE, 622 FT MSL.
POLE 964 FT FROM DER, 235 FT LEFT OF CENTERLINE, 24 FT AGL/618 FT MSL.
CRANE 969 FT FROM DER, 589 FT RIGHT OF CENTERLINE, 73 FT AGL/641 FT MSL.
TREE 2294 FT FROM DER, 265 FT RIGHT OF CENTERLINE, 650 FT MSL.
TRANSMISSION LINES, POLES, TREES BEGINNING 2297 FT FROM DER, 166 FT RIGHT OF CENTERLINE, UP TO 91 FT AGL/675 FT MSL.
BUILDINGS, BRIDGE BEGINNING 2682 FT FROM DER, 597 FT RIGHT OF CENTERLINE, UP TO 124 FT AGL/704 FT MSL.
TOWER 1 NM FROM DER, 1347 FT RIGHT OF CENTERLINE, 150 FT AGL/758 FT MSL.

NOTE: RWY 6R: SIGN, LIGHT POLE BEGINNING 27 FT FROM DER, 89 FT LEFT OF CENTERLINE, UP TO 4 FT AGL/585 FT MSL.
LIGHT POLE 41 FT FROM DER, 89 FT RIGHT OF CENTERLINE, 3 FT AGL/585 FT MSL.
WIND INDICATOR 175 FT FROM DER, 242 FT LEFT OF CENTERLINE, 11 FT AGL/590 FT MSL.
POLE 177 FT FROM DER, 241 FT LEFT OF CENTERLINE, 14 FT AGL/594 FT MSL.
POLE 471 FT FROM DER, 612 FT RIGHT OF CENTERLINE, 37 FT AGL/617 FT MSL.
POLES, SIGN BEGINNING 626 FT FROM DER, 595 FT RIGHT OF CENTERLINE, UP TO 37 FT AGL/618 FT MSL.
POLES BEGINNING 1009 FT FROM DER, 569 FT RIGHT OF CENTERLINE, UP TO 56 FT AGL/637 FT MSL.
POLE, DOME BEGINNING 1874 FT FROM DER, 568 FT RIGHT OF CENTERLINE, UP TO 70 FT AGL/651 FT MSL.
POLE 3098 FT FROM DER, 1282 FT RIGHT OF CENTERLINE, 49 FT AGL/661 FT MSL.
POLE 3372 FT FROM DER, 1289 FT RIGHT OF CENTERLINE, 88 FT AGL/708 FT MSL.
TRANSMISSION LINES, POLE, BUILDING BEGINNING 3720 FT FROM DER, 96 FT RIGHT OF CENTERLINE, UP TO 93 FT AGL/714 FT MSL.
TOWER, POLES, BUILDING BEGINNING 4310 FT FROM DER, 170 FT RIGHT OF CENTERLINE, UP TO 106 FT AGL/737 FT MSL.
ANTENNA, TOWERS BEGINNING 1.2 NM FROM DER, 1827 FT RIGHT OF CENTERLINE, UP TO 227 FT AGL/849 FT MSL.

NOTE: RWY 24L: LIGHT POLE BEGINNING 10 FT FROM DER, 29 FT LEFT OF CENTERLINE, UP TO 2 FT AGL/582 FT MSL.
LIGHT POLE 10 FT FROM DER, 29 FT RIGHT OF CENTERLINE, 2 FT AGL/582 FT MSL.
FENCE 184 FT FROM DER, 451 FT LEFT OF CENTERLINE, 9 FT AGL/590 FT MSL.
BUILDING 197 FT FROM DER, 502 FT LEFT OF CENTERLINE, 27 FT AGL/610 FT MSL.
BUILDING, TANK BEGINNING 213 FT FROM DER, 411 FT LEFT OF CENTERLINE, UP TO 30 FT AGL/613 FT MSL.
POLE 900 FT FROM DER, 621 FT LEFT OF CENTERLINE, 60 FT AGL/628 FT MSL.
CRANE, POLES, TRAVERSE WAY, BUILDING BEGINNING 1038 FT FROM DER, 38 FT LEFT OF CENTERLINE, UP TO 85 FT AGL/653 FT MSL.
POLE 1319 FT FROM DER, 161 FT RIGHT OF CENTERLINE, 64 FT AGL/632 FT MSL.
BUILDING 1685 FT FROM DER, 684 FT LEFT OF CENTERLINE, 166 FT AGL/740 FT MSL.
BUILDING 1727 FT FROM DER, 643 FT LEFT OF CENTERLINE, 169 FT AGL/741 FT MSL.
BUILDINGS, BRIDGES, DOME, POLE, TRAVERSE WAY BEGINNING 1748 FT FROM DER, 196 FT LEFT OF CENTERLINE, UP TO 167 FT AGL/745 FT MSL.
TRAVERSE WAY 2146 FT FROM DER, 90 FT RIGHT OF CENTERLINE, 65 FT AGL/637 FT MSL.
WINDMILLS BEGINNING 2340 FT FROM DER, 1119 FT LEFT OF CENTERLINE, UP TO 152 FT AGL/750 FT MSL.
STADIUMS, CRANES BEGINNING 2821 FT FROM DER, 317 FT LEFT OF CENTERLINE, UP TO 176 FT AGL/763 FT MSL.
BUILDING, TRAVERSE WAYS, CRANE, ELEVATOR, BRIDGE BEGINNING 5056 FT FROM DER, 207 FT LEFT OF CENTERLINE, UP TO 275 FT AGL/896 FT MSL.

NOTE: RWY 24R: LIGHT POLE 10 FT FROM DER, 55 FT RIGHT OF CENTERLINE, 2 FT AGL/582 FT MSL.
LIGHT POLE, SIGN BEGINNING 10 FT FROM DER, 55 FT LEFT OF CENTERLINE, UP TO 2 FT AGL/582 FT MSL.
POLES, TRAVERSE WAY BEGINNING 1514 FT FROM DER, 338 FT LEFT OF CENTERLINE, UP TO 64 FT AGL/632 FT MSL.



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BRIDGES BEGINNING 2106 FT FROM DER, 695 FT LEFT OF CENTERLINE, UP TO 70 FT AGL/648 FT MSL.
 POLE, TRAVERSE WAY BEGINNING 2324 FT FROM DER, 866 FT LEFT OF CENTERLINE, UP TO 86 FT AGL/654 FT MSL.
 STADIUMS, CRANES BEGINNING 3015 FT FROM DER, 816 FT LEFT OF CENTERLINE, UP TO 176 FT AGL/763 FT MSL.
 CRANE 5727 FT FROM DER, 1699 FT RIGHT OF CENTERLINE, 152 FT AGL/731 FT MSL.

CONTROLLING OBSTACLES:

RWY 6L: 758 FT MSL TOWER 413147.86N/0813857.11W.
 RWY 6R: 849 FT MSL TOWER 413137.06N/0813855.71W (CLIMB-TO ALTITUDE) (CEILING) (VISIBILITY), 737 FT MSL TOWER 413123.91N/0813934.47W (CLIMB GRADIENT).
 RWY 24L: 740 FT MSL BUILDING 413031.10N/0814144.07W (CLIMB GRADIENT), 896 FT MSL BUILDING 413004.41N/0814214.10W (CLIMB-TO ALTITUDE) (CEILING), 787 FT MSL BRIDGE 412953.73N/0814231.66W (VISIBILITY).
 RWY 24R: 763 FT MSL STADIUM 413025.30N/0814156.85W (CLIMB GRADIENT) (CLIMB-TO ALTITUDE) (CEILING), 757 FT MSL STADIUM 413025.15N/0814158.35W (VISIBILITY).
 OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 6L, 6R, 24L, 24R: 1603 FT MSL BUILDING 413003.75N/0814137.82W.

REMARKS:

AFS APPROVAL LETTER ON FILE FOR RWY 24L TAKEOFF MINIMUMS: 400-1 3/8 SM OR MINIMUM CLIMB OF 757 FT PER NM TO 1000.
 VEGETATION HEIGHT 100 FT.

FLIGHT INSPECTED BY PETER A WYMAN	<i>Digitally signed by</i> MARK D ADAMS Jun 27, 2023	OFFICE FPO	DATE 06/08/2023
DEVELOPED BY KELLY CARLSON	<i>Digitally signed by</i> MARK D ADAMS May 17, 2023	OFFICE AJV-A412	DATE 11/22/2022
APPROVED BY MARK D. ADAMS	<i>Digitally signed by</i> MARK D ADAMS May 17, 2023	OFFICE AJV-A412	DATE 08/10/2023
			TITLE MANAGER

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒

OTHER:

ZOB, CLE APP CON, BKL ATCT, AMGR

CHANGES - REASONS:

- PROJECT SUBMITTED TO RE-ESTABLISH FIX CRIBS
- AMENDED RWY 6L TAKEOFF MINIMUMS FROM "RWY 6L, 200-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 220 FT PER NM TO 900" TO "RWY 6L, 300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 220 FT PER NM TO 900" - IAW 8260.3E 13-1-5 TO ANNOTATE CEILINGS OF NO LESS THAN 200 FT
- AMENDED RWY 6R TAKEOFF MINIMUMS FROM "300-1 1/2 OR STANDARD WITH A MINIMUM CLIMB OF 290 FT PER NM TO 1000" TO "300-1 1/2 OR STANDARD WITH A MINIMUM CLIMB OF 290 FT PER NM TO 1000. NA WHEN TOWER CLOSED" FOR UNCHARTED RWY RESTRICTION
- AMENDED RWY 24L TAKEOFF MINIMUMS FROM "400-1 3/8 OR STANDARD WITH A MINIMUM CLIMB OF 757 FT PER NM TO 1000" TO "400-1 3/8 OR STANDARD WITH A MINIMUM CLIMB OF 757 FT PER NM TO 1000. NA WHEN TOWER CLOSED" FOR UNCHARTED RWY RESTRICTION
- AMENDED RWY 24R TAKEOFF MINIMUMS FROM "RWY 24R, 200-1 OR STANDARD WITH MINIMUM CLIMB OF 490 FT PER NM TO 900" TO "RWY 24R: 300-1 OR STANDARD WITH MINIMUM CLIMB OF 490 FT/NM TO 900" - IAW 8260.3E 13-1-5 TO ANNOTATE CEILINGS OF NO LESS THAN 200 FT
- AMENDED TAKEOFF OBSTACLE NOTES FOR ALL RWYS
- AMENDED RWY 6 CONTROLLING OBSTACLES FROM "RWY 6R: 737 FT MSL TOWER 413123.91N/0813934.47W (CLIMB GRADIENT), 849 FT MSL TOWER 413137.06N/0813855.71W (CEILING/CLIMB-TO ALTITUDE), 794 FT MSL ANTENNA 413132.77N/0813854.66W (VISIBILITY)" TO "849 FT MSL TOWER 413137.06N/0813855.71W (CLIMB-TO ALTITUDE) (CEILING) (VISIBILITY), 737 FT MSL TOWER 413123.91N/0813934.47W (CLIMB GRADIENT)" - UPDATED TARGETS-IDENTIFIED CONTROLLING OBSTACLES
- ADDED "VEGETATION HEIGHT 100 FT" TO REMARKS