

**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.

CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
CLEVELAND, OH	BURKE LAKEFRONT	1 FEBRUARY 2018	7

TAKEOFF MINIMUMS:

RWY 6L, 200-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 220 FT PER NM TO 900.
RWY 6R, 300-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 290 FT PER NM TO 1000.
RWY 24L, 400-1 3/8 OR STANDARD WITH MINIMUM CLIMB OF 757 FT PER NM TO 1000.
RWY 24R, 200-1 OR STANDARD WITH MINIMUM CLIMB OF 490 FT PER NM TO 900.

TEXTUAL DEPARTURE PROCEDURES:

RWY 6L/R: CLIMBING LEFT TURN TO 2000 ON HEADING 350 TO INTERCEPT CXR VOR/DME R-286 TO CRIBS INTERSECTION BEFORE PROCEEDING ON COURSE.
RWY 24L/R: CLIMBING RIGHT TURN TO 2000 ON HEADING 350 TO INTERCEPT CXR VOR/DME R-286 TO CRIBS INTERSECTION BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 6L: LIGHTING 9 FT FROM DER, 54 FT LEFT AND RIGHT OF CENTERLINE, 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. POLES AND TREE BEGINNING 2303 FT FROM DER, 222 FT RIGHT OF CENTERLINE, UP TO 84 FT AGL/665 FT MSL. POLES, TREE AND TRANSMISSION LINE BEGINNING 2327 FT FROM DER, 166 FT RIGHT OF CENTERLINE, UP TO 90 FT AGL/674 FT MSL. BUILDINGS AND 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 AND LIGHTING BEGINNING 27 FT FROM DER, 89 FT LEFT OF CENTERLINE, UP TO 4 FT AGL/585 FT MSL. LIGHTING 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 AND 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 AND DOME BEGINNING 1874 FT FROM DER, 568 FT RIGHT OF CENTERLINE, UP TO 70 FT AGL/651 FT MSL. POLES 3098 FT FROM DER, 1282 FT RIGHT OF CENTERLINE, 708 FT MSL. TRANSMISSION LINES, POLE AND BUILDING BEGINNING 3720 FT FROM DER, 96 FT RIGHT OF CENTERLINE, UP TO 93 FT AGL/714 FT MSL. TOWER, POLES AND BUILDING BEGINNING 4310 FT FROM DER, 170 FT RIGHT OF CENTERLINE, UP TO 106 FT AGL/737 FT MSL. ANTENNA AND TOWER BEGINNING 1.2 NM FROM DER, 2237 FT RIGHT OF CENTERLINE, UP TO 170 FT AGL/794 FT MSL. TOWER 1.2 NM FROM DER, 1827 FT RIGHT OF CENTERLINE, 227 FT AGL/849 FT MSL.

NOTE: RWY 24L: POLES BEGINNING 8 FT FROM DER, 28 FT LEFT AND RIGHT OF CENTERLINE, UP TO 1 FT AGL/581 FT MSL. LIGHTING BEGINNING 10 FT FROM DER, 29 FT LEFT AND 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 AND TANK BEGINNING 213 FT FROM DER, 411 FT LEFT OF CENTERLINE, UP TO 30 FT AGL/613 FT MSL. NAVAID 245 FT FROM DER, 499 FT RIGHT OF CENTERLINE, 9 FT AGL/587 FT MSL. POLE 900 FT FROM DER, 621 FT LEFT OF CENTERLINE, 60 FT AGL/628 FT MSL. CRANE, POLES AND SHIP 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. BUILDINGS BEGINNING 1685 FT FROM DER, 643 FT LEFT OF CENTERLINE, 169 FT AGL/741 FT MSL. BUILDINGS, DOME, POLE AND SHIP BEGINNING 1748 FT FROM DER, 367 FT LEFT OF CENTERLINE, UP TO 167 FT AGL/745 FT MSL. SHIP 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. STADIUM AND CRANES BEGINNING 2821 FT FROM DER, 317 FT LEFT OF CENTERLINE, UP TO 176 FT AGL/763 FT MSL. BUILDING, SHIPS, CRANE, ELEVATOR, BRIDGE BEGINNING 5056 FT FROM DER, 207 FT LEFT OF CENTERLINE, UP TO 275 FT AGL/896 FT MSL.

NOTE: RWY 24R: LIGHTING AND SIGN BEGINNING 10 FT FROM DER, 55 FT LEFT AND RIGHT OF CENTERLINE, UP TO 2 FT AGL/582 FT MSL. POLE AND SHIP BEGINNING 1514 FT FROM DER, 338 FT LEFT OF CENTERLINE, UP TO 64 FT AGL/632 FT MSL. POLE AND SHIP BEGINNING 2324 FT FROM DER, 866 FT LEFT OF CENTERLINE, UP TO 86 FT AGL/654 FT MSL. STADIUM AND 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: 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).

RWY 24L: 740 FT MSL BUILDING 413031.10N/0814144.07W (CLIMB GRADIENT), 896 FT MSL BUILDING 413004.41N/0814214.10W (CEILING/CLIMB-TO ALTITUDE), 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).

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 6L, 6R, 24L, 24R: 1603 FT MSL BUILDING 413003.75N/0814137.82W.



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CITY, STATE
CLEVELAND, OH

AIRPORT
BURKE LAKEFRONT

EFFECTIVE DATE **AMDT NO**
1 FEBRUARY 2018 7

REMARKS:

AFS APPROVAL LETTER ON FILE FOR RWY 24L MINIMUM CLIMB OF 757 FT PER NM TO 1000.

FLIGHT INSPECTED BY:	<i>Digitally signed by</i> BEV L BORDY Oct 18, 2017	OFFICE SYMBOL:	DATE:
SHAWN D MAXWELL		FICO	10/13/17
DEVELOPED BY:	<i>Digitally signed by</i> BEV L BORDY Oct 18, 2017	OFFICE SYMBOL:	DATE:
BEV BORDY (CHRISTINE BAYSE)		AJV-5433	08/24/2017
APPROVED BY:	<i>Digitally signed by</i> BEV L BORDY Oct 18, 2017	OFFICE SYMBOL:	DATE:
PATRICK MULQUEEN		AJV-5430	

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

OTHER:

ZOB, CLE APP CON, BKL ATCT, AMGR, CENTRAL FPT

CHANGES - REASONS:

1. UPDATED TAKEOFF MINIMUMS FOR RWY 6L FROM "300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 439 FT PER NM TO 1000" TO 200-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 220 FT PER NM TO 900". - 856 FT MSL TOWER DISMANTLED.
2. UPDATED TAKEOFF MINIMUMS FOR RWY 6R FROM "300-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 332 FT PER NM TO 1000" TO "300-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 290 FT PER NM TO 1000". - 856 FT MSL TOWER DISMANTLED.
3. UPDATED TAKEOFF MINIMUMS FOR RWY 24R FROM "200-1 OR STANDARD WITH MINIMUM CLIMB OF 492 FT PER NM TO 900" TO "200-1 OR STANDARD WITH MINIMUM CLIMB OF 490 FT PER NM TO 900"- OBSTACLE SURVEY.
4. UPDATED TAKEOFF OBSTACLE NOTES. - NEW SURVYED OBSTACLES.
5. UPDATED CONTROLLING OBSTACLES FOR RWY 6L/R AND 24R AND OBSTACLE MANDATING ODP ROUTE DEVELOPMENT. - NEW OBSTACLES AND OBSTACLES REMOVED FROM DATABASE.

QUALITY
3
CHECKED