

**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.
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CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
CLEVELAND, OH	BURKE LAKEFRONT		6

TAKEOFF MINIMUMS:

RWY 6L, 300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 439 FT PER NM TO 1000.
RWY 6R, 300-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 332 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 492 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, RWY LT 9 FT FROM DER, 54 FT LEFT OF CENTERLINE, 2 FT AGL/584 FT MSL.

RWY LT 9 FT FROM DER, 55 FT 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.

POLE 2303 FT FROM DER, 477 FT RIGHT OF CENTERLINE, 81 FT AGL/664 FT MSL.

POLES, TREE BEGINNING 2303 FT FROM DER, 222 FT RIGHT OF CENTERLINE, UP TO 84 FT AGL/665 FT MSL.

POLES, TREE, T-L TWR BEGINNING 2326 FT FROM DER, 166 FT RIGHT OF CENTERLINE, UP TO 92 FT AGL/678 FT MSL.

BUILDING 2680 FT FROM DER, 595 FT RIGHT OF CENTERLINE, 113 FT AGL/701 FT MSL.

BUILDINGS, BRIDGE BEGINNING 2682 FT FROM DER, 597 FT RIGHT OF CENTERLINE, UP TO 124 FT AGL/704 FT MSL.

TOWER 4989 FT FROM DER, 1758 FT RIGHT OF CENTERLINE, 237 FT AGL/856 FT MSL.

TOWER 1.1 NM FROM DER, 1347 FT RIGHT OF CENTERLINE, 150 AGL/758 MSL.

NOTE: RWY 6R, SIGN, REIL BEGINNING 27 FT FROM DER, 89 FT LEFT OF CENTERLINE, UP TO 4 FT AGL/585 FT MSL.

REIL 41 FT FROM DER, 89 FT RIGHT OF CENTERLINE, 3 FT AGL/585 FT MSL.

WINDSOCK 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, SIGNS BEGINNING 626 FT FROM DER, 595 FT RIGHT OF CENTERLINE, UP TO 38 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 1874 FT FROM DER, 568 FT RIGHT OF CENTERLINE, 71 FT AGL/651 FT MSL.

POLE, DOME BEGINNING 1874 FT FROM DER, 569 FT RIGHT OF CENTERLINE, UP TO 72 FT AGL/652 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.

T-L TWRS, POLE, BUILDINGS BEGINNING 3720 FT FROM DER, 93 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.

TOWERS, ANTENNAS BEGINNING 1 NM FROM DER, 1255 FT RIGHT OF CENTERLINE, UP TO 237 FT AGL/856 FT MSL.

NOTE: RWY 24L, POLES BEGINNING 8 FT FROM DER, 28 FT LEFT OF CENTERLINE, UP TO 1 FT AGL/581 FT MSL.

POLE 9 FT FROM DER, 49 FT RIGHT OF CENTERLINE, 1 FT AGL/581 FT MSL.

RWY LT 10 FT FROM DER, 29 FT LEFT OF CENTERLINE, 2 FT AGL/582 FT MSL.

RWY LT 10 FT FROM DER, 29 FT RIGHT OF CENTERLINE, 2 FT AGL/582 FT MSL.

FENCE BEGINNING 184 FT FROM DER, 451 FT LEFT OF CENTERLINE, UP TO 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.

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, SHIP BEGINNING 1038 FT FROM DER, 38 FT LEFT OF CENTERLINE, UP TO 85 FT AGL/653 FT MSL.



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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, DOME, POLE, 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.
WINDMILL BEGINNING 2340 FT FROM DER, 1119 FT LEFT OF CENTERLINE, UP TO 152 FT AGL/750 FT MSL.
BUILDING 2696 FT FROM DER, 845 FT LEFT OF CENTERLINE, 150 FT AGL/751 FT MSL.
STADIUM, BUILDINGS, CRANES BEGINNING 2977 FT FROM DER, 816 FT LEFT OF CENTERLINE, UP TO 162 FT AGL/764 FT MSL.
BUILDING, SHIP, CRANE, ELEVATOR, BRIDGE, BRDG SUPERSTRUCTURE BEGINNING 5056 FR FROM DER, 207 FT LEFT OF CENTERLINE, UP TO 275 FT AGL/896 FT MSL.

NOTE: RWY 24R, RWY LT 10 FT FROM DER, 55 FT RIGHT OF CENTERLINE, 2 FT AGL/582 FT MSL.
RWY LT, SIGN BEGINNING 10 FT FROM DER, 55 FT LEFT OF CENTERLINE, UP TO 2 FT AGL/582 FT MSL.
POLES, SHIP BEGINNING 1514 FT FROM DER, 338 FT LEFT OF CENTERLINE, UP TO 64 FT AGL/632 FT MSL.
POLE, SHIP BEGINNING 2324 FT FROM DER, 866 FT LEFT OF CENTERLINE, UP TO 86 FT AGL/654 FT MSL.
STADIUM, BUILDINGS, CRANES BEGINNING 2977 FT FROM DER, 816 FT LEFT OF CENTERLINE, UP TO 162 FT AGL/764 FT MSL.
CRANE 5727 FT FROM DER, 1699 FT RIGHT OF CENTERLINE, 152 FT AGL/731 FT MSL.

CONTROLLING OBSTACLES:

RWY 6L: 856 FT MSL TOWER 413137.00N/0813910.00W (CEILING/CLIMB GRADIENT/CLIMB-TO ALTITUDE), 758 FT MSL TOWER 413147.86N/0813857.11W (VISIBILITY).

RWY 6R: 856 FT MSL TOWER 413137.00N/0813910.00W (CEILING/CLIMB GRADIENT/CLIMB-TO ALTITUDE), 794 FT MSL ANTENNA 413132.77N/0813854.66W (VISIBILITY).

RWY 24L: 787 FT MSL BRIDGE 412953.73N/0814231.66W (VISIBILITY), 896 FT MSL BUILDING 413004.41N/0814214.10W (CEILING/CLIMB-TO ALTITUDE), 740 FT MSL BUILDING 413031.10N/0814144.07W (CLIMB GRADIENT).

RWY 24R: 764 FT MSL STADIUM 413025.58N/0814156.49W (CEILING/CLIMB GRADIENT/CLIMB-TO ALTITUDE), 749 FT MSL BUILDING 413021.01N/0814204.10W (VISIBILITY).

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 6L, 6R, 24L, 24R: 1603 FT MSL BUILDING 413030.75N/0814137.82W.



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AIRPORT
BURKE LAKEFRONT

EFFECTIVE DATE
AMDT NO
6

REMARKS:

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

FLIGHT INSPECTED BY:

OFFICE SYMBOL:

DATE:

DEVELOPED BY:

Digitally signed by

JOHN THORNTON

JOHN R THORNTON

May 22, 2017

OFFICE SYMBOL:

AJV-5422

DATE:

04/24/2017

APPROVED BY:

JULIE MORGAN

OFFICE SYMBOL:

AJV-5420

DATE:

REQUIRED EFFECTIVE DATE:

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

CHANGES - REASONS:

1. CHANGED RWY 6L TAKEOFF MINIMUMS FROM "400-2 OR STANDARD WITH A MINIMUM CLIMB OF 384 FEET PER NM TO 1000" TO "300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 439 FT PER NM TO 1000" - APPLICATION OF NEW CRITERIA RESULT IN NEW CEILING, VISIBILITY, AND CLIMB GRADIENT.
2. CHANGED RWY 6R TAKEOFF MINIMUMS FROM "400-2 1/4 OR STANDARD WITH A MINIMUM CLIMB OF 331 FEET PER NM TO 1000" TO "300-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 332 FT PER NM TO 1000" - NEW CONTROLLING OBSTACLES AND APPLICATION OF NEW CRITERIA RESULT IN NEW CEILING, VISIBILITY, AND CLIMB GRADIENT.
3. CHANGED RWY 24L TAKEOFF MINIMUMS FROM "300-1 1/2 OR STANDARD WITH A MINIMUM CLIMB OF 761 FEET PER NM TO 900" TO "400-1 3/8 OR STANDARD WITH MINIMUM CLIMB OF 757 FT PER NM TO 1000" - NEW CONTROLLING OBSTACLES AND APPLICATION OF NEW CRITERIA RESULT IN NEW CEILING, VISIBILITY, AND CLIMB GRADIENT.
4. CHANGED RWY 24R TAKEOFF MINIMUMS FROM "200-1 OR STANDARD WITH MINIMUM CLIMB OF 627 FEET PER NM TO 900" TO "200-1 OR STANDARD WITH MINIMUM CLIMB OF 492 FT PER NM TO 900" - NEW CONTROLLING OBSTACLES AND APPLICATION OF NEW CRITERIA RESULT IN NEW CEILING, VISIBILITY, AND CLIMB GRADIENT.
5. CHANGED RWY 6L TEXTUAL DEPARTURE PROCEDURE FROM "CLIMB HEADING 064.90 TO 1500 BEFORE PROCEEDING ON COURSE" TO "CLIMBING LEFT TURN TO 2000 ON HEADING 350 TO INTERCEPT CXR VOR/DME R-286 TO CRIBS INTERSECTION BEFORE PROCEEDING ON COURSE" - ATC REQUEST TO CHANGE DEPARTURE PROCEDURE TO MINIMIZE POTENTIAL FOR CONFLICT WITH ARRIVAL AIRCRAFT.
6. CHANGED RWY 6R TEXTUAL DEPARTURE PROCEDURE FROM "CLIMB HEADING 064.91 TO 1500 BEFORE PROCEEDING ON COURSE" TO "CLIMBING LEFT TURN TO 2000 ON HEADING 350 TO INTERCEPT CXR VOR/DME R-286 TO CRIBS INTERSECTION BEFORE PROCEEDING ON COURSE" - ATC REQUEST TO CHANGE DEPARTURE PROCEDURE TO MINIMIZE POTENTIAL FOR CONFLICT WITH ARRIVAL AIRCRAFT.
7. CHANGED RWY 24L/R TEXTUAL DEPARTURE PROCEDURE FROM "CLIMBING RIGHT TURN TO INTERCEPT CXR VOR/DME R-272 TO 1900 BEFORE PROCEEDING ON COURSE" TO "CLIMBING RIGHT TURN TO 2000 ON HEADING 350 TO INTERCEPT CXR VOR/DME R-286 TO CRIBS INTERSECTION BEFORE PROCEEDING ON COURSE" - ATC REQUEST TO MINIMIZE POTENTIAL FOR CONFLICT WITH ARRIVAL AIRCRAFT.
8. UPDATED TAKEOFF OBSTACLE NOTES (ALL RUNWAYS) - NEW SURVEY DATA.
9. CHANGED RWY 6L CONTROLLING OBSTACLES FROM "857 FT MSL TOWER 413137.00N/0813910.00W. 898 FT MSL STACK 413207.00N/0813828.00W" TO "856 FT MSL TOWER 413137.00N/0813910.00W (CEILING/CLIMB GRADIENT/CLIMB-TO ALTITUDE), 758 FT MSL TOWER 413147.86N/0813857.11W (VISIBILITY)" - NEW SURVEY DATA.
10. CHANGED RWY 6R CONTROLLING OBSTACLES FROM "857 FT MSL TOWER 413137.00N/0813910.00W. 898 FT MSL STACK 413207.00N/0813828.00W" TO "856 FT MSL TOWER 413137.00N/0813910.00W (CEILING/CLIMB GRADIENT/CLIMB-TO ALTITUDE), 794 FT MSL ANTENNA 413132.77N/0813854.66W (VISIBILITY)" - NEW SURVEY DATA.
11. CHANGED RWY 24L CONTROLLING OBSTACLES FROM "742 FT MSL ROD ON BUILDING 413031.10N/0814144.05W. TO 972 FT MSL BRIDGE 412953.53N/0814231.08W" TO "787 FT MSL BRIDGE 412953.73N/0814231.66W (VISIBILITY), 896 FT MSL BUILDING 413004.41N/0814214.10W (CEILING/CLIMB-TO ALTITUDE), 740 FT MSL BUILDING 413031.10N/0814144.07W (CLIMB GRADIENT)" - NEW SURVEY DATA.
12. CHANGED RWY 24R CONTROLLING OBSTACLES FROM "742 FT MSL ROD ON BUILDING 413031.10N/0814144.05W. 792 FT MSL BRIDGE 412953.53N/0814231.08W" TO "764 FT MSL STADIUM 413025.58N/0814156.49W (CEILING/CLIMB GRADIENT/CLIMB-TO ALTITUDE), 749 FT MSL BUILDING 413021.01N/0814204.10W (VISIBILITY)" - NEW SURVEY DATA.
13. ADDED REMARK "AFS APPROVAL LETTER FOR RWY 24L MINIMUM CLIMB OF 757 FT PER NM TO 1000" - CLIMB GRADIENT EXCEEDS 500 FT PER NM/AFS APPROVAL REQUIRED.