

**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
WILLOUGHBY, OH	WILLOUGHBY LOST NATION MUNI		3A

TAKEOFF MINIMUMS:

RWY 5, 10, 23, 28 STANDARD

TEXTUAL DEPARTURE PROCEDURES:

RWY 10 - CLIMB HEADING 098.51 TO 1600 BEFORE TURNING RIGHT.

RWY 23 - CLIMB HEADING 232.60 TO 1400 BEFORE TURNING RIGHT.

RWY 28 - CLIMB HEADING 278.52 TO 1400 BEFORE TURNING LEFT.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 05, TREE, FENCE BEGINNING 47 FT FROM DER, 243 FT RIGHT OF CENTERLINE, UP TO 671 FT MSL. TREE 1079 FT FROM DER, 665 FT LEFT OF CENTERLINE, 719 FT MSL. TREE 1292 FT FROM DER, 563 FT RIGHT OF CENTERLINE, 705 FT MSL. TREES BEGINNING 1300 FT FROM DER, 344 FT LEFT OF CENTERLINE, UP TO 723 FT MSL. TREES BEGINNING 2032 FT FROM DER, 346 FT RIGHT OF CENTERLINE, UP TO 725 FT MSL. TREE, TRANSMISSION LINE, POLE BEGINNING 2106 FT FROM DER, 93 FT RIGHT OF CENTERLINE, UP TO 726 FT MSL. TREE 3686 FT FROM DER, 151 FT LEFT OF CENTERLINE, 731 FT MSL. TREE 4178 FT FROM DER, 354 FT LEFT OF CENTERLINE, 737 FT MSL.

NOTE: RWY 10, POLE, TRANSMISSION LINE BEGINNING 602 FT FROM DER, 93 FT RIGHT OF CENTERLINE, UP TO 673 FT MSL. POLE, TRANSMISSION LINE BEGINNING 608 FT FROM DER, 67 FT LEFT OF CENTERLINE, UP TO 670 FT MSL. POLE 662 FT FROM DER, 63 FT RIGHT OF CENTERLINE, 52 FT AGL/675 FT MSL. TREES BEGINNING 773 FT FROM DER, 359 FT LEFT OF CENTERLINE, UP TO 708 FT MSL. TREE 922 FT FROM DER, 101 FT RIGHT OF CENTERLINE, 710 FT MSL. TREE 940 FT FROM DER, 77 FT RIGHT OF CENTERLINE, 711 FT MSL. TREE 1117 FT FROM DER, 483 FT LEFT OF CENTERLINE, 711 FT MSL. TREE 1148 FT FROM DER, 369 FT LEFT OF CENTERLINE, 713 FT MSL. TREES BEGINNING 1225 FT FROM DER, 88 FT RIGHT OF CENTERLINE, UP TO 730 FT MSL. TREES BEGINNING 1527 FT FROM DER, 376 FT LEFT OF CENTERLINE, UP TO 720 FT MSL. TREE 2405 FT FROM DER, 572 FT RIGHT OF CENTERLINE, 736 FT MSL. TREES BEGINNING 2476 FT FROM DER, 464 FT LEFT OF CENTERLINE, UP TO 731 FT MSL.

NOTE: RWY 23, BUILDING, TRANSMISSION LINE, POLE BEGINNING 201 FT FROM DER, 257 FT RIGHT OF CENTERLINE, UP TO 49 FT AGL/672 FT MSL. TREES BEGINNING 1660 FT FROM DER, 163 FT LEFT OF CENTERLINE, UP TO 714 FT MSL. TREES BEGINNING 1972 FT FROM DER, 88 FT RIGHT OF CENTERLINE, UP TO 722 FT MSL.

NOTE: RWY 28, BUILDING BEGINNING 877 FT FROM DER, 538 FT LEFT OF CENTERLINE, UP TO 49 FT AGL/672 FT MSL. POLE, TRANSMISSION LINE, BUILDING BEGINNING 988 FT FROM DER, 337 FT RIGHT OF CENTERLINE, UP TO 661 FT MSL. TREE 1179 FT FROM DER, 690 FT LEFT OF CENTERLINE, 690 FT MSL. TREE 1296 FT FROM DER, 515 FT RIGHT OF CENTERLINE, 678 FT MSL. TREE 1584 FT FROM DER, 456 FT RIGHT OF CENTERLINE, 684 FT MSL. TREES BEGINNING 1716 FT FROM DER, 472 FT RIGHT OF CENTERLINE, UP TO 697 FT MSL. TREES BEGINNING 2348 FT FROM DER, 327 FT LEFT OF CENTERLINE, UP TO 707 FT MSL. TREE 2649 FT FROM DER, 199 FT LEFT OF CENTERLINE, 712 FT MSL. TREES BEGINNING 2822 FT FROM DER, 338 FT LEFT OF CENTERLINE, UP TO 717 FT MSL.

CONTROLLING OBSTACLES:

OBSTACLES MANDATING ODP ROUTE DEVELOPEMENT: RWY 10: 1487 FT MSL AAO 413830.00N/0811824.00W. RWY 23: 1207 FT MSL STACK 414014.23N/0812833.55W. RWY 28: 1207 FT MSL STACK 414014.23N/0812833.55W.

REMARKS:

FLIGHT INSPECTED BY:

FLIGHT INSPECTION NOT REQUIRED - PROCESSED IAW
FLIGHT INSPECTION TEAM (AJW-333) MEMO DATED MAY
30, 2017

Digitally signed by
ROBERT G HAMILTON
Dec 22, 2017

OFFICE SYMBOL:
AJW-333

DATE:

DEVELOPED BY:

JIMMY SANG HUGHES

Digitally signed by
JIMMY S HUGHES
Dec 08, 2017

OFFICE SYMBOL:
AJV-5422

DATE:
11/28/2017

APPROVED BY:

JULIE MORGAN

Digitally signed by
ROBERT G HAMILTON
Dec 22, 2017

OFFICE SYMBOL:
AJV-55420

DATE:

REQUIRED EFFECTIVE DATE:

ROUTINE



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CITY, STATE

WILLOUGHBY, OH

AIRPORT

WILLOUGHBY LOST NATION MUNI

EFFECTIVE DATE

AMDT NO

3A

COORDINATED WITH:

A4A

ALPA

AOPA

APA

HAI

NBAA

☐☒☒☐☐☒

OTHER:

ZOB, CLE APP CON, LNN ATCT, AMGR

CHANGES - REASONS:

1. UPDATED TAKEOFF OBSTACLE NOTES. - NEW SURVEY.
2. REVISED CONTROLLING OBSTACLES TO REFLECT OBSTACLES MANDATING ODP DEVELOPEMENT.

QUALITY
3
CHECKED