

**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	AIRPORT ID	CITY	STATE	AMDT NO	ACTUAL EFFECTIVE DATE
TOLEDO EXECUTIVE	KTDZ	TOLEDO	OH	3	21 MAY 2020

TAKEOFF MINIMUMS:

RWYS 14, 22, 32: STANDARD

RWY 4: STANDARD WITH MINIMUM CLIMB OF 230 FT PER NM TO 2500, OR 1300 - 2 1/2 FOR VCOA.

TEXTUAL DEPARTURE PROCEDURES:

RWY 4: CLIMB ON HEADING 45.79 TO 2100 BEFORE TURNING LEFT.

RWY 32: CLIMB ON HEADING 321.05 TO 1400 BEFORE TURNING RIGHT.

VISUAL CLIMB OVER AIRPORT:

RWY 4: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS TOLEDO EXECUTIVE AIRPORT AT OR ABOVE 1800 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 4: ELECTRICAL SYSTEM 10 FT FROM DER, 26 FT LEFT OF CENTERLINE, 3 FT AGL/621 FT MSL. SIGN 22 FT FROM DER, 168 FT RIGHT OF CENTERLINE, 3 FT AGL/622 FT MSL. VEHICLE ON ROAD, POLE BEGINNING 284 FT FROM DER, 186 FT RIGHT OF CENTERLINE, UP TO 646 FT MSL. TREE, POLE, VEHICLE ON ROAD BEGINNING 372 FT FROM DER, 95 FT RIGHT OF CENTERLINE, UP TO 655 FT MSL. TREES, VEHICLE ON ROAD BEGINNING 403 FT FROM DER, 1 FT RIGHT OF CENTERLINE, UP TO 660 FT MSL. VEHICLE ON ROAD 489 FT FROM DER, 164 FT LEFT OF CENTERLINE, 647 FT MSL. TREES, VEHICLE ON ROAD BEGINNING 558 FT FROM DER, 1 FT LEFT OF CENTERLINE, UP TO 651 FT MSL. TREES BEGINNING 639 FT FROM DER, 437 FT RIGHT OF CENTERLINE, UP TO 679 FT MSL. TREES BEGINNING 785 FT FROM DER, 412 FT RIGHT OF CENTERLINE, UP TO 681 FT MSL. TREES, POLE BEGINNING 1096 FT FROM DER, 162 FT RIGHT OF CENTERLINE, UP TO 694 FT MSL. TREES BEGINNING 1996 FT FROM DER, 50 FT LEFT OF CENTERLINE, UP TO 680 FT MSL. TOWERS BEGINNING 3309 FT FROM DER, 1030 FT LEFT OF CENTERLINE, UP TO 761 FT MSL.

NOTE: RWY 14: SIGN 23 FT FROM DER, 248 FT LEFT OF CENTERLINE, 3 FT AGL/622 FT MSL. SIGN 39 FT FROM DER, 467 FT LEFT OF CENTERLINE, 4 FT AGL/623 FT MSL. VEHICLE ON ROAD BEGINNING 137 FT FROM DER, 283 FT RIGHT OF CENTERLINE, UP TO 638 FT MSL. VEHICLE ON ROAD, SIGNS, POLE BEGINNING 169 FT FROM DER, 168 FT LEFT OF CENTERLINE, UP TO 15 FT AGL/638 FT MSL. VEHICLE ON ROAD, POLES BEGINNING 478 FT FROM DER, 84 FT LEFT OF CENTERLINE, UP TO 639 FT MSL. VEHICLE ON ROAD BEGINNING 487 FT FROM DER, 155 FT RIGHT OF CENTERLINE, UP TO 639 FT MSL. POLES BEGINNING 573 FT FROM DER, 143 FT LEFT OF CENTERLINE, UP TO 20 FT AGL/640 FT MSL. POLES BEGINNING 629 FT FROM DER, 384 FT LEFT OF CENTERLINE, UP TO 20 FT AGL/641 FT MSL. POLE 685 FT FROM DER, 585 FT LEFT OF CENTERLINE, 32 FT AGL/652 FT MSL. POLES, BUILDINGS BEGINNING 694 FT FROM DER, 428 FT LEFT OF CENTERLINE, UP TO 35 FT AGL/654 FT MSL. SIGN 739 FT FROM DER, 6 FT RIGHT OF CENTERLINE, 22 FT AGL/644 FT MSL. BUILDING 996 FT FROM DER, 672 FT LEFT OF CENTERLINE, 657 FT MSL. POLES, BUILDING BEGINNING 1043 FT FROM DER, 305 FT LEFT OF CENTERLINE, UP TO 45 FT AGL/664 FT MSL. POLE BEGINNING 1285 FT FROM DER, 565 FT LEFT OF CENTERLINE, UP TO 47 FT AGL/667 FT MSL. POLE 1419 FT FROM DER, 252 FT RIGHT OF CENTERLINE, 38 FT AGL/658 FT MSL. POLE 1487 FT FROM DER, 328 FT RIGHT OF CENTERLINE, 40 FT AGL/661 FT MSL. TREES BEGINNING 1712 FT FROM DER, 72 FT LEFT OF CENTERLINE, UP TO 689 FT MSL.

NOTE: RWY 22: ELECTRICAL SYSTEM 10 FT FROM DER, 26 FT LEFT OF CENTERLINE, 2 FT AGL/623 FT MSL. ELECTRICAL SYSTEM 45 FT FROM DER, 299 FT LEFT OF CENTERLINE, 4 FT AGL/624 FT MSL. FENCE 112 FT FROM DER, 311 FT LEFT OF CENTERLINE, 7 FT AGL/627 FT MSL. FENCE 207 FT FROM DER, 298 FT LEFT OF CENTERLINE, 9 FT AGL/629 FT MSL. POLE 251 FT FROM DER, 467 FT LEFT OF CENTERLINE, 35 FT AGL/655 FT MSL. POLES, VEHICLE ON ROAD, TREE BEGINNING 251 FT FROM DER, 108 FT LEFT OF CENTERLINE, UP TO 40 FT AGL/660 FT MSL. VEHICLE ON ROAD 568 FT FROM DER, 2 FT RIGHT OF CENTERLINE, 637 FT MSL. POLES, TRANSMISSION LINE, VEHICLE ON ROAD, TREE BEGINNING 582 FT FROM DER, 246 FT RIGHT OF CENTERLINE, UP TO 48 FT AGL/671 FT MSL. TREES, VEHICLE ON ROAD, SIGN, POLES, TRANSMISSION LINES, FENCE, BRIDGE BEGINNING 595 FT FROM DER, 23 FT LEFT OF CENTERLINE, UP TO 684 FT MSL. TOWER, TRANSMISSION LINE BEGINNING 797 FT FROM DER, 307 FT RIGHT OF CENTERLINE, UP TO 101 FT AGL/726 FT MSL. TOWER, VEHICLE ON ROAD, POLES, TREES, TRANSMISSION LINE BEGINNING 807 FT FROM DER, 32 FT RIGHT OF CENTERLINE, UP TO 98 FT AGL/727 FT MSL. TREE 2062 FT FROM DER, 524 FT LEFT OF CENTERLINE, 685 FT MSL. TREES BEGINNING 2130 FT FROM DER, 589 FT LEFT OF CENTERLINE, UP TO 692 FT MSL. TREE 2534 FT FROM DER, 1053 FT LEFT OF CENTERLINE, 75 FT AGL/697 FT MSL.

NOTE: RWY 32: FENCE BEGINNING 43 FT FROM DER, 424 FT LEFT OF CENTERLINE, UP TO 7 FT AGL/626 FT MSL. TREE 177 FT FROM DER, 521 FT LEFT OF CENTERLINE, 648 FT MSL. TREE, POLES, VEHICLE ON ROAD BEGINNING 242 FT FROM DER, 346 FT LEFT OF CENTERLINE, UP TO 662 FT MSL. POLES, VEHICLE ON ROAD, TREES BEGINNING 556 FT FROM DER, 18 FT LEFT OF CENTERLINE, UP TO 40 FT AGL/681 FT MSL. TREE 683 FT FROM DER, 373 FT RIGHT OF CENTERLINE, 640 FT MSL. POLE 1042 FT FROM DER, 79 FT RIGHT OF CENTERLINE, 659 FT MSL. TRANSMISSION LINE 1092 FT FROM DER, 193 FT RIGHT OF CENTERLINE, 46 FT AGL/665 FT MSL. POLE 1206 FT FROM DER, 29 FT RIGHT OF CENTERLINE, 43 FT AGL/666 FT MSL. TRANSMISSION LINE, POLES BEGINNING 1271 FT FROM DER, 62 FT RIGHT OF CENTERLINE, UP TO 55 FT AGL/674 FT MSL. TRANSMISSION LINES 1605 FT FROM DER, 559 FT RIGHT OF CENTERLINE, 61 FT AGL/680 FT MSL. TRANSMISSION LINE 1676 FT FROM DER, 559 FT RIGHT OF CENTERLINE, 61 FT AGL/682 FT MSL. POLE, TRANSMISSION LINE BEGINNING 1679 FT FROM DER, 559 FT RIGHT OF CENTERLINE, UP TO 71 FT AGL/691 FT MSL. POLES, TRANSMISSION LINES BEGINNING 1781 FT FROM DER, 639 FT RIGHT OF CENTERLINE, UP TO 74 FT AGL/692 FT MSL. TREES BEGINNING 1998 FT FROM DER, 144 FT LEFT OF CENTERLINE, UP TO 693 FT MSL. POLE, TOWER BEGINNING 2903 FT FROM DER, 1189 FT RIGHT OF CENTERLINE, UP TO 716 FT MSL. TRANSMISSION LINE 3372 FT FROM DER, 478 FT RIGHT OF CENTERLINE, 139 FT AGL/755 FT MSL.

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CONTROLLING OBSTACLES:

RWY 4: 2015 FT MSL TOWER 414003.00N/0832122.00W.

OBSTACLE MANDATING ODP ROUTE DEVELOPEMENT: RWY 4, 32: 1850 FT MSL TOWER, 413922.00N/0832641.00W.

RWY 4 VISUAL CLIMB AREA OBSTACLE: 838 FT MSL TOWER, 413052.00N/0832841.00W

OBSTACLE OUTSIDE VISUAL CLIMB AREA MANDATING VCOA CLIMB TO ALTITUDE: 1850 FT MSL TOWER 413922.00N/0832641.00W.

REMARKS:

FLIGHT INSPECTED BY	<i>Digitally signed by</i>	OFFICE	DATE	
JEFFREY W HARING	DONALD H LANIER	FICO	1/16/20	
	Jan 22, 2020			
DEVELOPED BY	<i>Digitally signed by</i>	OFFICE	DATE	
LIAM DONAHUE	LIAM DONAHUE	AJV-A431	11/25/2019	
	Dec 19, 2019			
APPROVED BY	<i>Digitally signed by</i>	OFFICE	DATE	TITLE
GEORGE DAVIS	DONALD H LANIER	AJV-A430		MANAGER
	Jan 22, 2020			

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZOB, TOL APP CON, AMGR

CHANGES - REASONS:

1. CHANGED RWY 14, 22, AND 32 TAKEOFF MINIMUMS FROM 300-1 TO STANDARD. - NONSTANDARD TAKEOFF MINIMUMS NO LONGER REQUIRED FOR RWYS 14, 22, AND 32.
2. CHANGED TAKEOFF MINIMUMS FOR RWY 4 FROM: 2100 - 2 OR STANDARD WITH A MINIMUM CLIMB OF 300 PER NM TO 2100 TO: STANDARD WITH MINIMUM CLIMB OF 230 FT PER NM TO 2500, OR 1300 - 2 1/2 FOR VCOA. - NEW TARGETS EVALUATION AND FAAO 8260.46G.
3. DELETED RWY 22 FROM TEXTUAL DEPARTURE PROCEDURES. - NOT REQUIRED ACCORDING TO NEW TARGETS EVALUATION.
4. CHANGED TEXTUAL DEPARTURE PROCEDURES RWYS 14, 22, & 31: CLIMB RUNWAY HEADING TO 2000 BEFORE TURNING TO RWY 4 : CLIMB ON HEADING 45.79 TO 2100 BEFORE TURNING LEFT AND RWY 32: CLIMB ON HEADING 321.05 TO 1400 BEFORE TURNING RIGHT. - NEW TARGETS RUN AND OBSTACLE 39-001418.
5. ADDED VCOA TO RWY 4. - RWY 4 IFR DEPARTURE REQUIRES INCREASED CLIMB GRADIENT.
6. UPDATED TAKEOFF OBSTACLE NOTES. - NEW SURVEY.
7. UPDATED CONTROLLING OBSTACLES. - NEW SURVEY AND DEPARTURE PROCEDURE.

QUALITY
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CHECKED