

**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</u>	<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>	<u>AMDT NO</u>	<u>ACTUAL EFFECTIVE DATE</u>
CHICAGO O'HARE INTL	KORD	CHICAGO	IL	22	

**TAKEOFF MINIMUMS:**

**RWY 4L, 4R, 9C, 9L, 9R, 10C, 10L, 10R, 22L, 27L, 28C, 28R:** STANDARD

**RWY 22R:** NA - ATC

**RWY 27C:** STANDARD WITH MINIMUM CLIMB OF 220 FT PER NM TO 1800.

**RWY 27R:** STANDARD WITH MINIMUM CLIMB OF 220 FT PER NM TO 1700.

**RWY 28L:** STANDARD WITH MINIMUM CLIMB OF 210 FT PER NM TO 900, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1300 FEET PRIOR TO DER.

**TEXTUAL DEPARTURE PROCEDURES:**

**VISUAL CLIMB OVER AIRPORT:**

**TAKEOFF OBSTACLE NOTES:**

**NOTE: RWY 04L:** LIGHTING 6 FT FROM DER, 108 FT RIGHT OF CENTERLINE, 2 FT AGL/649 FT MSL. POLE 587 FT FROM DER, 614 FT RIGHT OF CENTERLINE, 663 FT MSL. BUILDING 3275 FT FROM DER, 1320 FT RIGHT OF CENTERLINE, 93 FT AGL/734 FT MSL. BLDG\_TWR 3301 FT FROM DER, 1248 FT RIGHT OF CENTERLINE, 109 FT AGL/750 FT MSL. VEHICLE ON ROAD 3341 FT FROM DER, 1206 FT RIGHT OF CENTERLINE, 107 FT AGL/747 FT MSL.

**NOTE: RWY 04R:** TREE 809 FT FROM DER, 610 FT RIGHT OF CENTERLINE, 675 FT MSL. TREE 1108 FT FROM DER, 689 FT RIGHT OF CENTERLINE, 698 FT MSL. TREE 1280 FT FROM DER, 701 FT RIGHT OF CENTERLINE, 698 FT MSL. TREE 1311 FT FROM DER, 824 FT RIGHT OF CENTERLINE, 710 FT MSL.

**NOTE: RWY 09C:** TERRAIN 223 FT FROM DER, 460 FT RIGHT OF CENTERLINE, 658 FT MSL. TERRAIN 317 FT FROM DER, 496 FT RIGHT OF CENTERLINE, 670 FT MSL. TERRAIN BEGINNING 408 FT FROM DER, 548 FT RIGHT OF CENTERLINE, UP TO 680 FT MSL. TERRAIN BEGINNING 781 FT FROM DER, 612 FT RIGHT OF CENTERLINE, UP TO 673 FT MSL. TERRAIN 988 FT FROM DER, 677 FT RIGHT OF CENTERLINE, 679 FT MSL. POLE 1189 FT FROM DER, 727 FT RIGHT OF CENTERLINE, 41 FT AGL/684 FT MSL.

**NOTE: RWY 09L:** BUILDING 2771 FT FROM DER, 1233 FT RIGHT OF CENTERLINE, 94 FT AGL/745 FT MSL.

**NOTE: RWY 09R:** POLE 877 FT FROM DER, 688 FT RIGHT OF CENTERLINE, 29 FT AGL/673 FT MSL.

**NOTE: RWY 10C:** TOWER 1169 FT FROM DER, 778 FT LEFT OF CENTERLINE, 41 FT AGL/694 FT MSL.

**NOTE: RWY 10L:** BLDG\_TWR 2517 FT FROM DER, 980 FT RIGHT OF CENTERLINE, 88 FT AGL/732 FT MSL. SIGN 2703 FT FROM DER, 729 FT RIGHT OF CENTERLINE, 80 FT AGL/724 FT MSL. TOWER 3958 FT FROM DER, 1287 FT RIGHT OF CENTERLINE, 127 FT AGL/771 FT MSL. POLE 4388 FT FROM DER, 1585 FT LEFT OF CENTERLINE, 124 FT AGL/762 FT MSL. ANTENNA 4390 FT FROM DER, 1585 FT LEFT OF CENTERLINE, 124 FT AGL/763 FT MSL.

**NOTE: RWY 10R:** TREE 2218 FT FROM DER, 1016 FT RIGHT OF CENTERLINE, 714 FT MSL. TREE 2248 FT FROM DER, 777 FT RIGHT OF CENTERLINE, 716 FT MSL. TREE 2358 FT FROM DER, 821 FT RIGHT OF CENTERLINE, 717 FT MSL. TREES BEGINNING 2365 FT FROM DER, 732 FT RIGHT OF CENTERLINE, UP TO 720 FT MSL. TREES BEGINNING 2387 FT FROM DER, 586 FT RIGHT OF CENTERLINE, UP TO 719 FT MSL. TREES BEGINNING 2415 FT FROM DER, 690 FT RIGHT OF CENTERLINE, UP TO 71 FT AGL/724 FT MSL. TREES BEGINNING 2446 FT FROM DER, 586 FT RIGHT OF CENTERLINE, UP TO 721 FT MSL.

**NOTE: RWY 22L:** POLE 1301 FT FROM DER, 737 FT RIGHT OF CENTERLINE, 39 FT AGL/694 FT MSL.

**NOTE: RWY 27L:** VEHICLE ON ROAD 5551 FT FROM DER, 1830 FT LEFT OF CENTERLINE, 141 FT AGL/804 FT MSL. POLE 5553 FT FROM DER, 1831 FT LEFT OF CENTERLINE, 143 FT AGL/805 FT MSL.

**NOTE: RWY 27R:** POLE 1051 FT FROM DER, 739 FT LEFT OF CENTERLINE, 707 FT MSL. VEHICLE ON ROAD 1071 FT FROM DER, 560 FT RIGHT OF CENTERLINE, 698 FT MSL. TREE 1243 FT FROM DER, 816 FT RIGHT OF CENTERLINE, 708 FT MSL. POLE 1410 FT FROM DER, 833 FT LEFT OF CENTERLINE, 707 FT MSL. POLE 1492 FT FROM DER, 736 FT LEFT OF CENTERLINE, 707 FT MSL. TANK 1509 FT FROM DER, 886 FT LEFT OF CENTERLINE, 56 FT AGL/726 FT MSL. VEHICLE ON ROAD 2777 FT FROM DER, 1019 FT LEFT OF CENTERLINE, 111 FT AGL/777 FT MSL. ELEVATOR 2778 FT FROM DER, 1019 FT LEFT OF CENTERLINE, 111 FT AGL/776 FT MSL.

**NOTE: RWY 28C:** TREE 2373 FT FROM DER, 1099 FT LEFT OF CENTERLINE, 737 FT MSL. VEHICLE ON ROAD 2382 FT FROM DER, 1101 FT LEFT OF CENTERLINE, 735 FT MSL. TREE 2559 FT FROM DER, 257 FT RIGHT OF CENTERLINE, 737 FT MSL. TREE 2719 FT FROM DER, 1194 FT LEFT OF

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CENTERLINE, 80 FT AGL/750 FT MSL. VEHICLE ON ROAD 2906 FT FROM DER, 1199 FT LEFT OF CENTERLINE, 750 FT MSL. TREE 2907 FT FROM DER, 1196 FT LEFT OF CENTERLINE, 746 FT MSL. TREE 3526 FT FROM DER, 695 FT LEFT OF CENTERLINE, 768 FT MSL. VEHICLE ON ROAD 3538 FT FROM DER, 702 FT LEFT OF CENTERLINE, 97 FT AGL/771 FT MSL.

**NOTE: RWY 28L:** VEHICLE ON ROAD 590 FT FROM DER, 656 FT LEFT OF CENTERLINE, 700 FT MSL. VEHICLE ON ROAD 679 FT FROM DER, 639 FT LEFT OF CENTERLINE, 700 FT MSL. VEHICLE ON ROAD 783 FT FROM DER, 617 FT LEFT OF CENTERLINE, 700 FT MSL. VEHICLE ON ROAD 1070 FT FROM DER, 697 FT LEFT OF CENTERLINE, 707 FT MSL. POLE 1070 FT FROM DER, 697 FT LEFT OF CENTERLINE, 707 FT MSL. TREE 1583 FT FROM DER, 803 FT LEFT OF CENTERLINE, 724 FT MSL. TREE 1608 FT FROM DER, 777 FT LEFT OF CENTERLINE, 727 FT MSL. TREE 1675 FT FROM DER, 759 FT LEFT OF CENTERLINE, 728 FT MSL. TREE 1676 FT FROM DER, 783 FT LEFT OF CENTERLINE, 722 FT MSL. TREE 1748 FT FROM DER, 731 FT LEFT OF CENTERLINE, 732 FT MSL. TREE 1759 FT FROM DER, 724 FT LEFT OF CENTERLINE, 731 FT MSL. TREE 1877 FT FROM DER, 825 FT LEFT OF CENTERLINE, 740 FT MSL. TREE 1911 FT FROM DER, 788 FT LEFT OF CENTERLINE, 79 FT AGL/751 FT MSL. TREE 1924 FT FROM DER, 878 FT LEFT OF CENTERLINE, 741 FT MSL. TREE 2552 FT FROM DER, 826 FT LEFT OF CENTERLINE, 758 FT MSL. VEHICLE ON ROAD 2553 FT FROM DER, 791 FT LEFT OF CENTERLINE, 745 FT MSL. TREE 2553 FT FROM DER, 791 FT LEFT OF CENTERLINE, 745 FT MSL. VEHICLE ON ROAD 2555 FT FROM DER, 831 FT LEFT OF CENTERLINE, 754 FT MSL. TREE 2555 FT FROM DER, 857 FT LEFT OF CENTERLINE, 749 FT MSL. VEHICLE ON ROAD 2555 FT FROM DER, 857 FT LEFT OF CENTERLINE, 749 FT MSL. VEHICLE ON ROAD 2585 FT FROM DER, 717 FT LEFT OF CENTERLINE, 745 FT MSL. TREE 2585 FT FROM DER, 717 FT LEFT OF CENTERLINE, 745 FT MSL. TREE 2670 FT FROM DER, 1206 FT LEFT OF CENTERLINE, 747 FT MSL.

**NOTE: RWY 28R:** TREE 2559 FT FROM DER, 942 FT LEFT OF CENTERLINE, 737 FT MSL.

#### CONTROLLING OBSTACLES:

**RWY 27C:** 1468 FT MSL TOWER 420042.49N/0880206.93W.

**RWY 27R:** 1468 FT MSL TOWER 420042.49N/0880206.93W.

**RWY 28L:** 834 FT MSL TANK 415733.10N/0875658.33W

#### REMARKS:

1. DEPARTURE ROUTES THAT WOULD AUTHORIZE STANDARD TAKEOFF MINIMUMS WITH A 200 FT PER NM CLIMB GRADIENT AND MEET ATC FLOW REQUIREMENTS CAN NOT BE CONSTRUCTED FOR RWY 27C, 27R AND 28L. NON-STANDARD CLIMB GRADIENTS PUBLISHED TO MITIGATE 40:1 PENETRATIONS PER ATC REQUEST.
2. ATC REQUESTS TO OPT OUT OF VCOA REQUIREMENT DUE TO TRAFFIC VOLUME AND COMPLEXITY.
3. AIRBUS 380 (80 FT AGL) USED AS WORST CASE FOR AIRCRAFT ON TAXIWAYS

<u>FLIGHT INSPECTED BY</u>	<i>Digitally signed by</i>	<u>OFFICE</u>	<u>DATE</u>
GREGORY SCOTT WIEBE	<b>JOHN BORDY</b> Sep 08, 2020	FICO	09/05/2020

<u>DEVELOPED BY</u>	<i>Digitally signed by</i>	<u>OFFICE</u>	<u>DATE</u>
JOHN BORDY (ANA VEGA)	<b>JOHN BORDY</b> Sep 08, 2020	AJV-A422	05/29/2020

<u>APPROVED BY</u>	<i>Digitally signed by</i>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
MARLON ROBINSON	<b>JOHN BORDY</b> Sep 08, 2020	AJV-A420		MANAGER

#### REQUIRED EFFECTIVE DATE:

ROUTINE

#### COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER:ZAU, ORD APP CON, ORD ATCT, AMGR

#### CHANGES - REASONS:

1. ADDED RUNWAYS 9C AND 27C - PER FPT NEW RUNWAY 9C/27C COMMISSIONING.
2. TAKEOFF MINIMUMS UPDATED: RWY 22R FROM "STANDARD" TO "NA - ATC" - ATC REQUEST: ATC WILL NOT BE USING RWY 22R FOR DEPARTURES.
3. TAKEOFF MINIMUMS UPDATED: RWY 27L FROM "STANDARD WITH MINIMUM CLIMB OF 205 FT PER NM TO 1700" TO "STANDARD" - CONTROLLING OBSTACLE NO LONGER PENETRATES THE 40:1 AREA.
4. TAKEOFF MINIMUMS: UPDATED RWY 28C FROM "STANDARD WITH MINIMUM CLIMB OF 220 FT PER NM TO 1700" TO "STANDARD" - CONTROLLING OBSTACLE NO LONGER PENETRATES THE 40:1 AREA.
5. TAKEOFF MINIMUMS: UPDATED RWY 28R FROM "STANDARD WITH MINIMUM CLIMB OF 225 FT PER NM TO 1700" TO "STANDARD" - CONTROLLING OBSTACLE NO LONGER PENETRATES THE 40:1 AREA.
6. TAKEOFF MINIMUMS: UPDATED RWY 28L FROM "STANDARD WITH MINIMUM CLIMB OF 210 FT PER NM TO 900, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1900 FEET PRIOR TO DER" TO "STANDARD WITH MINIMUM CLIMB OF 210 FT PER NM TO 900, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1300 FEET PRIOR TO DER" - NEW TARGETS EVALUATION.
7. UPDATED TAKEOFF OBSTACLES NOTES FOR RWYS 4R, 9R, 10L, 10R, 27L, 28R - NEW TARGETS EVALUATION.
8. REMOVED RWY 27L, 28C, AND 28R FROM CONTROLLING OBSTACLES - CONTROLLING OBSTACLES NO LONGER PENETRATES THE 40:1 AREA.

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