

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37**

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Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
CHICAGO, IL	CHICAGO O'HARE INTL		20C

TAKEOFF MINIMUMS:

RWY 4L, 4R, 9L, 9R, 10C, 10L, 10R, 22L, 22R: STANDARD.

RWY 27L: STANDARD WITH MINIMUM CLIMB OF 220 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 1500 FEET PRIOR TO DER.

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

RWY 28C: STANDARD WITH MINIMUM CLIMB OF 220 FT PER NM TO 1700.

RWY 28L: STANDARD WITH MINIMUM CLIMB OF 235 FT PER NM TO 1000, 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.

RWY 28R: STANDARD WITH MINIMUM CLIMB OF 225 FT PER NM TO 1700.

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 4L: TOWER ON BUILDING 3301 FT FROM DER, 1248 FT RIGHT OF CENTERLINE, 109 FT AGL/750 FT MSL.

NOTE: RWY 4R: AIRCRAFT ON TAXIWAY 152 FT FROM DER, 329 FT LEFT OF CENTERLINE, 80 FT AGL/735 FT MSL. TREE 809 FT FROM DER, 610 FT RIGHT OF CENTERLINE, 675 FT MSL.

NOTE: RWY 9L: BUILDING 2771 FT FROM DER, 1233 FT RIGHT OF CENTERLINE, 94 FT AGL/745 FT MSL.

NOTE: RWY 9R: 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: AIRCRAFT ON TAXIWAY BEGINNING 32 FT FROM DER, 439 FT LEFT OF CENTERLINE, UP TO 80 FT AGL/735 FT MSL. SIGN AND TOWER ON BUILDING BEGINNING 2518 FT FROM DER, 729 FT RIGHT OF CENTERLINE, UP TO 88 FT AGL/732 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.

NOTE: RWY 10R: TREE 2190 FT FROM DER, 1020 FT RIGHT OF CENTERLINE, 714 FT MSL. TREES BEGINNING 2202 FT FROM DER, 1016 FT RIGHT OF CENTERLINE, UP TO 715 FT MSL. TREE 2248 FT FROM DER, 777 FT RIGHT OF CENTERLINE, 716 FT MSL. TREES BEGINNING 2265 FT FROM DER, 780 FT RIGHT OF CENTERLINE, UP TO 717 FT MSL. TREES BEGINNING 2365 FT FROM DER, 586 FT RIGHT OF CENTERLINE, UP TO 720 FT MSL. TREE 2412 FT FROM DER, 735 FT RIGHT OF CENTERLINE, 723 FT MSL. TREES BEGINNING 2415 FT FROM DER, 586 FT RIGHT OF CENTERLINE, UP TO 71 FT AGL/724 FT MSL.

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

NOTE: RWY 22R: AIRCRAFT ON TAXIWAY 34 FT FROM DER, 429 FT LEFT OF CENTERLINE, UP TO 80 FT AGL/736 FT MSL.

NOTE: RWY 27L: AIRCRAFT ON TAXIWAY 70 FT FROM DER, 407 FT LEFT OF CENTERLINE, UP TO 80 FT AGL/740 FT MSL. POLE 5860 FT FROM DER, 1822 FT LEFT OF CENTERLINE, 147 FT AGL/812 FT MSL.

NOTE: RWY 27R: TANK 1509 FT FROM DER, 886 FT LEFT OF CENTERLINE, 56 FT AGL/726 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. TREE 2559 FT FROM DER, 257 FT RIGHT OF CENTERLINE, 737 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.

NOTE: RWY 28L: RAILROAD BEGINNING 590 FT FROM DER, 639 FT LEFT OF CENTERLINE, UP TO 700 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. TREES BEGINNING 1590 FT FROM DER, 724 FT LEFT OF CENTERLINE, UP TO 734 FT MSL. TREE 1877 FT FROM DER, 825 FT LEFT OF CENTERLINE, 740 FT MSL. TREES BEGINNING 1911 FT FROM DER, 788 FT LEFT OF CENTERLINE, UP TO 79 FT AGL/751 FT MSL. TREES BEGINNING 2552 FT FROM DER, 717 FT LEFT OF CENTERLINE,

QUALITY
3
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UP TO 758 FT MSL. TANK 5913 FT FROM DER, 741 FT RIGHT OF CENTERLINE, 167 FT AGL/834 FT MSL.

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

CONTROLLING OBSTACLES:

RWY 27L: 812 FT MSL POLE 415844.00N/0875620.00W.

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

RWY 28C: 1413 FT MSL TOWER 415926.00N/0880139.00W.

RWY 28L: 852 FT MSL TANK 415732.96N/0875658.25W.

RWY 28R: 1413 FT MSL TOWER 415926.00N/0880139.00W.

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 27L, 27R, 28C, 28L AND 28R. 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.
4. RWY 27L AND RWY 27R CLIMB GRADIENTS ROUNDED UP TO 220 FT PER NM FOR PUBLICATION (COMPUTED VALUE IS 218 FT PER NM).
5. RWY 28L CLIMB GRADIENT COMPUTES TO 210 FT PER NM TO 900. RETAINED PUBLISHED 235 FT PER NM TO 1000 CLIMB GRADIENT UNTIL NEXT FULL AMENDMENT.
6. RWY 28R CLIMB GRADIENT ROUNDED UP TO 225 FT PER NM FOR PUBLICATION (COMPUTED VALUE IS 222 FT PER NM).

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CITY, STATE
CHICAGO, IL

AIRPORT
CHICAGO O'HARE INTL

EFFECTIVE DATE
AMDT NO
20C

FLIGHT INSPECTED BY:

OFFICE SYMBOL:

DATE:

DEVELOPED BY: *Digitally signed by*
HEIDI SNIDER **HEIDI SNIDER**
Oct 02, 2017

OFFICE SYMBOL:
AJV-5423

DATE:
10/02/2017

APPROVED BY:
JULIE MORGAN

OFFICE SYMBOL:
AJV-5420

DATE:

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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

OTHER:
ZAU, ORD APP CON, ORD ATCT, AMGR

CHANGES - REASONS:

1. AMENDED TAKE OFF MINIMUMS, REMOVED RWY 15 & RWY 33 - RWY DECOMMISSIONING.
2. AMENDED TAKEOFF OBSTACLE NOTES, REMOVED RWY 15 & RWY 33 - RWY DECOMMISSIONING.
3. REMOVED RWY 33 CONTROLLING OBSTACLE - RWY DECOMMISSIONING.
4. REMOVED REMARKS REGARDING RWY 15 & RWY 33 - RWY DECOMMISSIONING.

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