

**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 ID</u>	<u>CITY</u>	<u>STATE</u>	<u>AMDT NO</u>	<u>ACTUAL EFFECTIVE DATE</u>
KEWR	NEWARK	NJ	5A	8 SEPTEMBER 2022

**TAKEOFF MINIMUMS:**

RWY 4L, STANDARD WITH MINIMUM CLIMB OF 383 FT PER NM TO 2500.  
RWY 4R, STANDARD WITH MINIMUM CLIMB OF 375 FT PER NM TO 2500.  
RWY 11, STANDARD WITH MINIMUM CLIMB OF 363 FT PER NM TO 2500.  
RWY 22L, STANDARD WITH MINIMUM CLIMB OF 337 FT PER NM TO 2500.  
RWY 22R, STANDARD WITH MINIMUM CLIMB OF 331 FT PER NM TO 2500.  
RWY 29, 400-2 OR STANDARD WITH MINIMUM CLIMB OF 452 FT PER NM TO 500.

**TEXTUAL DEPARTURE PROCEDURES:**

RWY 4R - CLIMB HEADING 038.85 TO 500 BEFORE TURNING RIGHT.  
RWY 22L - CLIMB HEADING 218.83 TO 500 BEFORE TURNING LEFT.  
RWY 29 - CLIMB HEADING 288.00 TO 800 BEFORE TURNING EASTBOUND.

**VISUAL CLIMB OVER AIRPORT:**

**TAKEOFF OBSTACLE NOTES:**

NOTE: RWY 4L, POLE AND SIGN BEGINNING 4 FT FROM DER, 375 FT LEFT OF CENTERLINE, UP TO 11 FT MSL. POLE 10 FT FROM DER, 320 FT RIGHT OF CENTERLINE, 10 FT MSL. SIGN AND LIGHTING BEGINNING 15 FT FROM DER, 93 FT RIGHT OF CENTERLINE, UP TO 11 FT MSL. FENCE BEGINNING 180 FT FROM DER, 492 FT LEFT OF CENTERLINE, UP TO 17 FT MSL. TREE 211 FT FROM DER, 552 FT LEFT OF CENTERLINE, 19 FT AGL/27 FT MSL. POLES BEGINNING 304 FT FROM DER, 474 FT LEFT OF CENTERLINE, UP TO 45 FT MSL. NAVAID 881 FT FROM DER, 417 FT RIGHT OF CENTERLINE, 30 FT AGL/38 FT MSL. ANTENNA 882 FT FROM DER, 417 FT RIGHT OF CENTERLINE, 39 FT MSL. POLES BEGINNING 1047 FT FROM DER, 679 FT LEFT OF CENTERLINE, UP TO 46 FT MSL. POLE 1225 FT FROM DER, 814 FT LEFT OF CENTERLINE, 38 FT AGL/48 FT MSL. TREE 2041 FT FROM DER, 776 FT LEFT OF CENTERLINE, 43 FT AGL/67 FT MSL. TREE 3085 FT FROM DER, 709 FT LEFT OF CENTERLINE, 62 FT AGL/89 FT MSL. POLE 4730 FT FROM DER, 1459 FT RIGHT OF CENTERLINE, 121 FT AGL/130 FT MSL.

NOTE: RWY 4R, LIGHTING BEGINNING 20 FT FROM DER, 84 FT RIGHT OF CENTERLINE, UP TO 12 FT MSL. SIGNS BEGINNING 31 FT FROM DER, 332 FT LEFT OF CENTERLINE, UP TO 12 FT MSL. WIND INDICATOR AND SIGN BEGINNING 64 FT FROM DER, 328 FT RIGHT OF CENTERLINE, UP TO 21 FT MSL. POLE AND BUILDING BEGINNING 481 FT FROM DER, 590 FT RIGHT OF CENTERLINE, UP TO 27 FT MSL. NAVAID 529 FT FROM DER, 532 FT LEFT OF CENTERLINE, 30 FT AGL/38 FT MSL. ANTENNA 530 FT FROM DER, 533 FT LEFT OF CENTERLINE, 39 FT MSL. POLE AND BUILDING BEGINNING 531 FT FROM DER, 592 FT RIGHT OF CENTERLINE, UP TO 29 FT MSL. BUILDING 742 FT FROM DER, 687 FT RIGHT OF CENTERLINE, 38 FT MSL. ANTENNA 1068 FT FROM DER, 748 FT RIGHT OF CENTERLINE, 44 FT MSL. HEAT AND COOL SYSTEM 1089 FT FROM DER, 791 FT RIGHT OF CENTERLINE, 46 FT MSL. BUILDING, ANTENNA, AND TOWER BEGINNING 1133 FT FROM DER, 584 FT RIGHT OF CENTERLINE, UP TO 40 FT AGL/50 FT MSL. TOWER, ANTENNA, AND TREE BEGINNING 1379 FT FROM DER, 590 FT RIGHT OF CENTERLINE, UP TO 54 FT AGL/62 FT MSL. POLE AND TREE BEGINNING 1808 FT FROM DER, 153 FT RIGHT OF CENTERLINE, UP TO 68 FT MSL. TREE 1899 FT FROM DER, 477 FT LEFT OF CENTERLINE, 48 FT AGL/59 FT MSL. POLES BEGINNING 2179 FT FROM DER, 993 FT RIGHT OF CENTERLINE, UP TO 59 FT AGL/72 FT MSL. TOWER 2479 FT FROM DER, 1150 FT LEFT OF CENTERLINE, 66 FT AGL/77 FT MSL. SIGN 3401 FT FROM DER, 811 FT RIGHT OF CENTERLINE, 70 FT AGL/100 FT MSL. SIGN 3649 FT FROM DER, 1453 FT RIGHT OF CENTERLINE, 116 FT MSL. POLE AND SIGN BEGINNING 4379 FT FROM DER, 509 FT RIGHT OF CENTERLINE, UP TO 121 FT AGL/130 FT MSL.

NOTE: RWY 11, POLE AND FENCE BEGINNING 53 FT FROM DER, 284 FT RIGHT OF CENTERLINE, UP TO 35 FT MSL. FENCE 70 FT FROM DER, 507 FT LEFT OF CENTERLINE, 9 FT AGL/18 FT MSL. ANTENNAS, SIGNS, FENCE, VEGETATION, POLE, TERRAIN, TREES, AND BUILDING BEGINNING 77 FT FROM DER, 3 FT RIGHT OF CENTERLINE, UP TO 52 FT MSL. FENCES AND POLES BEGINNING 86 FT FROM DER, 49 FT LEFT OF CENTERLINE, UP TO 19 FT MSL. FENCE, TREES, AND ELECTRICAL SYSTEM BEGINNING 151 FT FROM DER, 13 FT LEFT OF CENTERLINE, UP TO 20 FT MSL. SIGN, TREE, FENCE, AND VERTICAL STRUCTURE BEGINNING 165 FT FROM DER, 22 FT LEFT OF CENTERLINE, UP TO 28 FT MSL. BUILDING 239 FT FROM DER, 495 FT LEFT OF CENTERLINE, 35 FT MSL. PIPELINE PIPE 239 FT FROM DER, 534 FT LEFT OF CENTERLINE, 36 FT MSL. HEAT AND COOL SYSTEM, FENCE, PIPELINE PIPE, TANK, AND TERRAIN BEGINNING 245 FT FROM DER, 28 FT LEFT OF CENTERLINE, UP TO 37 FT MSL. PIPELINE PIPES, TERRAIN, FENCE, SIGNS, BUILDING, VERTICAL STRUCTURE, HEAT AND COOL SYSTEM, TREE, AND POLES BEGINNING 273 FT FROM DER, 2 FT LEFT OF CENTERLINE, UP TO 38 FT MSL. BUILDING, POLES, SIGNS, TRAVERSE WAY, AND TANKS BEGINNING 358 FT FROM DER, 1 FT LEFT OF CENTERLINE, UP TO 42 FT MSL. POLES BEGINNING 476 FT FROM DER, 58 FT LEFT OF CENTERLINE, UP TO 43 FT MSL. ANTENNAS, POLES, SIGNS, TREES, AND FENCE BEGINNING 490 FT FROM DER, 50 FT LEFT OF CENTERLINE, UP TO 50 FT MSL. SIGNS AND POLES BEGINNING 733 FT FROM DER, 242 FT LEFT OF CENTERLINE, UP TO 63 FT MSL. SIGNS, POLES, TREES, FENCE, ANTENNAS, AND BUILDING BEGINNING 746 FT FROM DER, 109 FT LEFT OF CENTERLINE, UP TO 58 FT AGL/68 FT MSL. POLE 3989 FT FROM DER, 1505 FT LEFT OF CENTERLINE, 117 FT MSL.

QUALITY  
42  
CHECKED

**AIRPORT ID**

KEWR

**CITY**

NEWARK

**STATE**

NJ

**AMDT NO**

5A

**EFFECTIVE DATE**

8 SEPTEMBER 2022

NOTE: RWY 22L, LIGHTING BEGINNING 3 FT FROM DER, 54 FT LEFT OF CENTERLINE, UP TO 12 FT MSL. LIGHTING BEGINNING 4 FT FROM DER, ON CENTERLINE, UP TO 12 FT MSL. POLE, ANTENNA, AND LIGHTING BEGINNING 8 FT FROM DER, 2 FT LEFT OF CENTERLINE, UP TO 8 FT AGL/16 FT MSL. FENCE 139 FT FROM DER, 454 FT LEFT OF CENTERLINE, 18 FT MSL. TREE 627 FT FROM DER, 566 FT LEFT OF CENTERLINE, 27 FT MSL. POLES BEGINNING 835 FT FROM DER, 586 FT LEFT OF CENTERLINE, UP TO 39 FT MSL. POLE 1368 FT FROM DER, 805 FT LEFT OF CENTERLINE, 48 FT MSL. POLE 2876 FT FROM DER, 1216 FT LEFT OF CENTERLINE, 70 FT AGL/95 FT MSL.

NOTE: RWY 22R, LIGHTING BEGINNING 1 FT FROM DER, 46 FT LEFT OF CENTERLINE, UP TO 11 FT MSL. LIGHTING AND SIGN BEGINNING 1 FT FROM DER, 55 FT RIGHT OF CENTERLINE, UP TO 11 FT MSL. SIGN 59 FT FROM DER, 399 FT LEFT OF CENTERLINE, 12 FT MSL. SIGN 81 FT FROM DER, 482 FT LEFT OF CENTERLINE, 13 FT MSL. BUILDING AND FENCE BEGINNING 125 FT FROM DER, 510 FT LEFT OF CENTERLINE, UP TO 24 FT MSL. POLES BEGINNING 383 FT FROM DER, 566 FT LEFT OF CENTERLINE, UP TO 25 FT MSL. POLE 1230 FT FROM DER, 783 FT RIGHT OF CENTERLINE, 42 FT MSL. POLE 1600 FT FROM DER, 506 FT LEFT OF CENTERLINE, 51 FT MSL. SIGN 1639 FT FROM DER, 885 FT RIGHT OF CENTERLINE, 54 FT MSL. SIGN 1705 FT FROM DER, 940 FT RIGHT OF CENTERLINE, 55 FT MSL. TREES BEGINNING 1812 FT FROM DER, 177 FT RIGHT OF CENTERLINE, UP TO 60 FT MSL. TREE 1829 FT FROM DER, 308 FT RIGHT OF CENTERLINE, 54 FT AGL/64 FT MSL. TREE 1874 FT FROM DER, 368 FT RIGHT OF CENTERLINE, 67 FT MSL. TREES AND POLES BEGINNING 1898 FT FROM DER, 394 FT RIGHT OF CENTERLINE, UP TO 70 FT MSL.

NOTE: RWY 29, SIGN 113 FT FROM DER, 309 FT LEFT OF CENTERLINE, 22 FT MSL. POLE 661 FT FROM DER, 622 FT RIGHT OF CENTERLINE, 35 FT MSL. POLE 676 FT FROM DER, 507 FT LEFT OF CENTERLINE, 44 FT MSL. SIGNS AND POLES BEGINNING 689 FT FROM DER, 516 FT RIGHT OF CENTERLINE, UP TO 34 FT AGL/43 FT MSL. POLE 698 FT FROM DER, 608 FT LEFT OF CENTERLINE, 45 FT MSL. SIGNS, POLE, AND TREE BEGINNING 754 FT FROM DER, 376 FT LEFT OF CENTERLINE, UP TO 52 FT MSL. POLE 928 FT FROM DER, 685 FT RIGHT OF CENTERLINE, 44 FT MSL. TREE 961 FT FROM DER, 658 FT LEFT OF CENTERLINE, 68 FT MSL. POLES BEGINNING 968 FT FROM DER, 415 FT RIGHT OF CENTERLINE, UP TO 49 FT MSL. TREES AND POLES BEGINNING 975 FT FROM DER, 105 FT LEFT OF CENTERLINE, UP TO 77 FT MSL. TREES AND POLE BEGINNING 980 FT FROM DER, 283 FT RIGHT OF CENTERLINE, UP TO 50 FT MSL. SIGNS, POLES, BUILDINGS, AND ANTENNA BEGINNING 1035 FT FROM DER, 6 FT RIGHT OF CENTERLINE, UP TO 48 FT AGL/60 FT MSL. BUILDINGS, TREE, HEAT AND COOL SYSTEMS, ANTENNA, AND POLE BEGINNING 1415 FT FROM DER, 29 FT RIGHT OF CENTERLINE, UP TO 55 FT AGL/63 FT MSL. SIGNS, POLE, AND CATENARIES BEGINNING 1422 FT FROM DER, 1 FT LEFT OF CENTERLINE, UP TO 105 FT AGL/113 FT MSL. ANTENNA, BUILDINGS, TREES, AND POLE BEGINNING 1467 FT FROM DER, 74 FT RIGHT OF CENTERLINE, UP TO 64 FT MSL. ANTENNAS AND HEAT AND COOL SYSTEM BEGINNING 1613 FT FROM DER, 534 FT RIGHT OF CENTERLINE, UP TO 91 FT MSL. BUILDINGS, HEAT AND COOL SYSTEMS, ANTENNAS, CATENARIES, AND POLE BEGINNING 1728 FT FROM DER, 226 FT RIGHT OF CENTERLINE, UP TO 90 FT AGL/99 FT MSL. CATENARY 2495 FT FROM DER, 476 FT LEFT OF CENTERLINE, 118 FT MSL. POLE AND CATENARIES BEGINNING 2539 FT FROM DER, 455 FT LEFT OF CENTERLINE, UP TO 110 FT AGL/119 FT MSL. TREES BEGINNING 5635 FT FROM DER, 1546 FT RIGHT OF CENTERLINE, UP TO 160 FT MSL. TREE 5711 FT FROM DER, 1280 FT RIGHT OF CENTERLINE, 161 FT MSL. TREE 5835 FT FROM DER, 1185 FT RIGHT OF CENTERLINE, 164 FT MSL. TREE 5988 FT FROM DER, 2020 FT RIGHT OF CENTERLINE, 169 FT MSL.

**CONTROLLING OBSTACLES:**

RWY 4L: 597 FT MSL BLDG 404412.00N/0741015.00W (CG), 1806 FT MSL BLDG 404246.75N/0740047.27W (CGTA)

RWY 4R: 1806 FT MSL BLDG 404246.75N/0740047.27W

RWY 11: 1806 FT MSL BLDG 404246.75N/0740047.27W

RWY 22L: 1806 FT MSL BLDG 404246.75N/0740047.27W

RWY 22R: 460 FT MSL CRANE 404106.56N/0740925.42W (CG), 1806 FT MSL BLDG 404246.75N/0740047.27W (CGTA)

RWY 29: 357 FT MSL BUILDING 404231.27N/0741206.59W (CG/CGTA/CEILING), 267 FT MSL STACK 404240.48N/0741248.90W (VISIBILITY)

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 29: 1806 FT MSL BLDG 404246.75N/0740047.27W, RWY 4R/22L: 460 FT MSL CRANE 404106.56N/0740925.42W

**REMARKS:**

**FLIGHT INSPECTED BY**  
JEREMY R VIRTIS  
*Digitally signed by*  
**DONALD H LANIER**  
Jun 21, 2022

**OFFICE**  
FPO  
**DATE**  
06/15/2022

**DEVELOPED BY**  
NICHOLAS K. JACKSON  
*Digitally signed by*  
**DONALD H LANIER**  
Jun 21, 2022

**OFFICE**  
AJV-A431  
**DATE**  
03/14/2022

**APPROVED BY**  
LONNIE EVERHART  
*Digitally signed by*  
**DONALD H LANIER**  
Jun 21, 2022

**OFFICE**  
AJV-A430  
**DATE**  
**TITLE**  
MANAGER

**REQUIRED EFFECTIVE DATE:**

ROUTINE

QUALITY  
42  
CHECKED

**COORDINATED WITH:**

**A4A** ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZNY, EWR ATCT, N90, AMGR

**CHANGES - REASONS:**

1. UPDATED RWY 29 MINIMUM CLIMB GRADIENT FROM "444 FT PER NM" TO "452 FT PER NM". - UPDATED IAW TARGETS CALCULATED CLIMB GRADIENT.
2. UPDATED RWY 11 MINIMUM CLIMB GRADIENT FROM "361 FT PER NM" TO "363 FT PER NM". - UPDATED IAW TARGETS CALCULATED CLIMB GRADIENT.
3. RWY 4L/4R CLIMB GRADIENT CONTROLLING OBSTACLE MSL VALUE UPDATED FROM "598 MSL" TO "597 MSL". - DATABASE OBSTACLE MSL VALUE UPDATED.
4. VCOA NOT ESTABLISHED PER DIRECTORATE LEVEL MANDATE OF NO CHANGES TO EWR PROCEDURES, EXCEPT FOR SAFETY AND NOTAM CLEARING. - KEWR AIRSPACE IS CURRENTLY IN THE PROCESS OF MOVING TO PHL TRACON.
5. RWY 4L CG CONTROLLING OBSTRUCTION UPDATED FROM 598 FT MSL BUILDING TO 597 FT MSL BUILDING. RWY 22L CG CONTROLLING OBSTRUCTION UPDATED FROM 410 FT MSL CRANE TO 1806 FT MSL BUILDING. RWY 22R ADDED CG CONTROLLING OBSTRUCTION 460 FT MSL CRANE. ADDED RWY 4R/22L 460 FT MSL CRANE FOR OBSTACLE MANDATING ODP ROUTE DEVELOPMENT. RWY 29 ADDED CG/CGTA/CEILING OBSTRUCTION 357 FT MSL BUILDING AND VISIBILITY OBSTRUCTION 267 FT MSL STACK. - NEW CONTROLLING OBSTRUCTION DATA UTILIZED.
6. UPDATED RWY 4R HEADING FROM 039.00 TO 038.85 AND RWY 22L HEADING FROM 219.00 TO 218.83. - VALUES UPDATED IAW AIRNAV DATA.