

**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>
CENTENNIAL	KAPA	DENVER	CO	5A	

TAKEOFF MINIMUMS:

RWY 10, 28, 35L, 35R: STANDARD.
RWY 17L: STANDARD WITH MINIMUM CLIMB OF 257 FT PER NM TO 6800.
RWY 17R: STANDARD WITH MINIMUM CLIMB OF 372 FT PER NM TO 6800.

TEXTUAL DEPARTURE PROCEDURES:

RWY 10: WHEN DEPARTING ON COURSES BETWEEN 333 CW TO 162 FROM DEPARTURE END OF RUNWAY CLIMB ON HEADING 102.95 TO 6600 BEFORE TURNING RIGHT. ALL OTHER COURSES: CLIMBING LEFT TURN TO INTERCEPT DEN VOR/DME R-194 TO DEN VOR/DME, THENCE...

RWY 17L/R: CLIMB ON A HEADING BETWEEN 350 CW TO 162 FROM DEPARTURE END OF RUNWAY. ALL OTHER COURSES: CLIMBING LEFT TURN TO INTERCEPT DEN VOR/DME R-199 TO DEN VOR/DME, THENCE...

RWY 28: CLIMB ON A HEADING BETWEEN 333 CW TO 103 FROM DEPARTURE END OF RUNWAY. ALL OTHER COURSES: CLIMBING RIGHT TURN TO INTERCEPT DEN VOR/DME R-210 TO DEN VOR/DME, THENCE...

RWY 35L/R: CLIMB ON A HEADING BETWEEN 333 CW TO 162 FROM DEPARTURE END OF RUNWAY. ALL OTHER COURSES: CLIMB ON HEADING 349.95 TO INTERCEPT DEN VOR/DME R-211 TO DEN VOR/DME, THENCE...

...CLIMB IN DEN VOR/DME HOLDING PATTERN (HOLD S, RIGHT TURNS, 343.00 INBOUND) TO 16500 BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 10, VEHICLE ON ROAD 196 FT FROM DER, 408 FT LEFT OF CENTERLINE, 5799 FT MSL.
VEHICLE ON ROAD 283 FT FROM DER, 402 FT LEFT OF CENTERLINE, 5804 FT MSL.
VEHICLE ON ROAD 389 FT FROM DER, 396 FT LEFT OF CENTERLINE, 5809 FT MSL.
VEHICLE ON ROAD 483 FT FROM DER, 618 FT RIGHT OF CENTERLINE, 5815 FT MSL.
VEHICLE ON ROAD 521 FT FROM DER, 393 FT LEFT OF CENTERLINE, 5815 FT MSL.
VEHICLE ON ROAD 611 FT FROM DER, 569 FT RIGHT OF CENTERLINE, 5817 FT MSL.
VEHICLE ON ROAD 644 FT FROM DER, 401 FT LEFT OF CENTERLINE, 5818 FT MSL.
VEHICLE ON ROAD 719 FT FROM DER, 528 FT RIGHT OF CENTERLINE, 5818 FT MSL.
VEHICLE ON ROAD 781 FT FROM DER, 425 FT LEFT OF CENTERLINE, 5823 FT MSL.
TREE, VEHICLE ON ROAD BEGINNING 835 FT FROM DER, 458 FT RIGHT OF CENTERLINE, UP TO 20 FT AGL/5828 FT MSL.
VEHICLE ON ROAD 927 FT FROM DER, 464 FT LEFT OF CENTERLINE, 5827 FT MSL.
TERRAIN 958 FT FROM DER, 624 FT RIGHT OF CENTERLINE, 5835 FT MSL.
TERRAIN, VEHICLE ON ROAD BEGINNING 1013 FT FROM DER, 254 FT RIGHT OF CENTERLINE, UP TO 5836 FT MSL.
TERRAIN, VEHICLE ON ROAD BEGINNING 1113 FT FROM DER, 119 FT RIGHT OF CENTERLINE, UP TO 5839 FT MSL.
VEHICLE ON ROAD BEGINNING 1138 FT FROM DER, 535 FT LEFT OF CENTERLINE, UP TO 5833 FT MSL.
FENCE, VEHICLE ON ROAD, TERRAIN BEGINNING 1210 FT FROM DER, 3 FT RIGHT OF CENTERLINE, UP TO 5841 FT MSL.
VEHICLE ON ROAD BEGINNING 1237 FT FROM DER, 31 FT LEFT OF CENTERLINE, UP TO 5834 FT MSL.
TERRAIN BEGINNING 1282 FT FROM DER, 229 FT RIGHT OF CENTERLINE, UP TO 5843 FT MSL.
BUILDING, VEHICLE ON ROAD, POLE BEGINNING 1384 FT FROM DER, 71 FT LEFT OF CENTERLINE, UP TO 33 FT AGL/5854 FT MSL.
POLE, VEHICLE ON ROAD, TERRAIN BEGINNING 1470 FT FROM DER, 204 FT RIGHT OF CENTERLINE, UP TO 5862 FT MSL.
BUILDING, POLE, VEHICLE ON ROAD, FENCE BEGINNING 1562 FT FROM DER, 194 FT RIGHT OF CENTERLINE, UP TO 40 FT AGL/5877 FT MSL.
BUILDING, FENCE, POLE, VERTICAL STRUCTURE BEGINNING 1600 FT FROM DER, 229 FT RIGHT OF CENTERLINE, UP TO 41 FT AGL/5879 FT MSL.
BUILDING, TREE BEGINNING 1680 FT FROM DER, 306 FT RIGHT OF CENTERLINE, UP TO 46 FT AGL/5882 FT MSL.
BUILDING, FENCE, VEHICLE ON ROAD, POLE, TREE, TERRAIN BEGINNING 1685 FT FROM DER, 31 FT RIGHT OF CENTERLINE, UP TO 5885 FT MSL.
BUILDING, POLE, TERRAIN, VEHICLE ON ROAD BEGINNING 2056 FT FROM DER, 34 FT RIGHT OF CENTERLINE, UP TO 5889 FT MSL.
BUILDING, POLE BEGINNING 2270 FT FROM DER, 662 FT RIGHT OF CENTERLINE, UP TO 38 FT AGL/5892 FT MSL.

NOTE: RWY 17L, LIGHTING 10 FT FROM DER, 9 FT RIGHT OF CENTERLINE, 2 FT AGL/5886 FT MSL.
POLE 1755 FT FROM DER, 882 FT LEFT OF CENTERLINE, 31 FT AGL/5929 FT MSL.
TREE 2533 FT FROM DER, 342 FT LEFT OF CENTERLINE, 26 FT AGL/5949 FT MSL.
TREE 2579 FT FROM DER, 342 FT LEFT OF CENTERLINE, 27 FT AGL/5950 FT MSL.
TREE 2867 FT FROM DER, 455 FT RIGHT OF CENTERLINE, 44 FT AGL/5959 FT MSL.
TREE 2973 FT FROM DER, 1211 FT RIGHT OF CENTERLINE, 35 FT AGL/5963 FT MSL.
TREE 2974 FT FROM DER, 948 FT RIGHT OF CENTERLINE, 42 FT AGL/5964 FT MSL.
TREES BEGINNING 2997 FT FROM DER, 748 FT RIGHT OF CENTERLINE, UP TO 50 FT AGL/5967 FT MSL.
TREE, LIGHTING BEGINNING 3025 FT FROM DER, 769 FT RIGHT OF CENTERLINE, UP TO 56 FT AGL/5970 FT MSL.

QUALITY
3
CHECKED

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TREE 3309 FT FROM DER, 747 FT LEFT OF CENTERLINE, 35 FT AGL/5970 FT MSL.
 TREE 3344 FT FROM DER, 756 FT LEFT OF CENTERLINE, 36 FT AGL/5974 FT MSL.
 TREES BEGINNING 3444 FT FROM DER, 1225 FT RIGHT OF CENTERLINE, UP TO 50 FT AGL/5981 FT MSL.
 BUILDING BEGINNING 3849 FT FROM DER, 1479 FT LEFT OF CENTERLINE, UP TO 59 FT AGL/5988 FT MSL.
 TREE 4767 FT FROM DER, 893 FT RIGHT OF CENTERLINE, 49 FT AGL/6007 FT MSL

NOTE: RWY 17R, TERRAIN 9 FT FROM DER, 96 FT LEFT OF CENTERLINE, 5869 FT MSL.
 TERRAIN 10 FT FROM DER, 273 FT RIGHT OF CENTERLINE, 5872 FT MSL.
 VEHICLE ON ROAD, TERRAIN BEGINNING 75 FT FROM DER, 302 FT RIGHT OF CENTERLINE, UP TO 5885 FT MSL.
 GENERAL UTILITY 103 FT FROM DER, 253 FT LEFT OF CENTERLINE, 7 FT AGL/5875 FT MSL.
 WIND INDICATOR, TERRAIN BEGINNING 118 FT FROM DER, 443 FT LEFT OF CENTERLINE, UP TO 5883 FT MSL.
 VEHICLE ON ROAD, TERRAIN BEGINNING 190 FT FROM DER, 353 FT RIGHT OF CENTERLINE, UP TO 5887 FT MSL.
 POLE, FENCE, TERRAIN BEGINNING 525 FT FROM DER, 196 FT RIGHT OF CENTERLINE, UP TO 5918 FT MSL.
 POLE 2190 FT FROM DER, 1029 FT RIGHT OF CENTERLINE, 31 FT AGL/5928 FT MSL.
 POLE 2289 FT FROM DER, 863 FT RIGHT OF CENTERLINE, 30 FT AGL/5935 FT MSL.
 POLE BEGINNING 2361 FT FROM DER, 255 FT RIGHT OF CENTERLINE, UP TO 32 FT AGL/5942 FT MSL.
 POLE 2738 FT FROM DER, 1069 FT RIGHT OF CENTERLINE, 42 FT AGL/5947 FT MSL.
 POLE 2824 FT FROM DER, 904 FT RIGHT OF CENTERLINE, 43 FT AGL/5948 FT MSL.
 POLE 3108 FT FROM DER, 1151 FT RIGHT OF CENTERLINE, 27 FT AGL/5949 FT MSL.
 TREE 3163 FT FROM DER, 568 FT RIGHT OF CENTERLINE, 66 FT AGL/5975 FT MSL.
 BUILDING 3226 FT FROM DER, 888 FT RIGHT OF CENTERLINE, 73 FT AGL/5996 FT MSL.
 BUILDING BEGINNING 3261 FT FROM DER, 820 FT RIGHT OF CENTERLINE, UP TO 87 FT AGL/6010 FT MSL.
 BUILDING, TREE, POLE BEGINNING 3281 FT FROM DER, 492 FT RIGHT OF CENTERLINE, UP TO 88 FT AGL/6021 FT MSL.
 BUILDING BEGINNING 5084 FT FROM DER, 1038 FT RIGHT OF CENTERLINE, UP TO 79 FT AGL/6023 FT MSL.
 BUILDING 1 NM FROM DER, 1861 FT RIGHT OF CENTERLINE, 64 FT AGL/6030 FT MSL.

NOTE: RWY 28, BUILDING 57 FT FROM DER, 495 FT RIGHT OF CENTERLINE, 34 FT AGL/5858 FT MSL.
 POLE, WIND INDICATOR, TERRAIN BEGINNING 99 FT FROM DER, 183 FT LEFT OF CENTERLINE, UP TO 5832 FT MSL.
 TERRAIN 473 FT FROM DER, 578 FT LEFT OF CENTERLINE, 5836 FT MSL.

NOTE: RWY 35L, TERRAIN 36 FT FROM DER, 163 FT RIGHT OF CENTERLINE, 5805 FT MSL.
 TREES BEGINNING 158 FT FROM DER, 448 FT LEFT OF CENTERLINE, UP TO 35 FT AGL/5820 FT MSL.

NOTE: RWY 35R, LIGHTING 8 FT FROM DER, 30 FT RIGHT OF CENTERLINE, 2 FT AGL/5795 FT MSL.
 LIGHTING 8 FT FROM DER, 30 FT LEFT OF CENTERLINE, 2 FT AGL/5794 FT MSL

CONTROLLING OBSTACLES:

NOTE: RWY 17L: 6579 FT MSL AAO 392950.88N/1045159.60W.

NOTE: RWY 17R: 6021 FT MSL OBS LT ON BLDG 393302.52N/1045119.43W (CG), 6579 FT MSL AAO 392950.88N/1045159.60W (CGTA).

OBSTACLE MANDATING ROUTE DEVELOPMENT:

RWY 10, 17L, 17R, 28, 35L, 35R - 14436 FT MSL AAO 393518.00N/1053833.00N.

REMARKS:

CLIMB IN HOLD TO 16500 PRIOR TO WESTBOUND (ALL OTHER COURSES) PER FLIGHT CHECK RECOMMENDATION DUE TO MOUNTAIN WAVE TURBULENCE AS INDICATED ON FLIGHT INSPECTION REPORT.

FLIGHT INSPECTED BY

	<i>Digitally signed by</i>	<u>OFFICE</u>	<u>DATE</u>
	DAVID TEFFETELLER		
BRYAN VIET	Nov 02, 2020	FICO	10/30/2020

DEVELOPED BY

	<i>Digitally signed by</i>	<u>OFFICE</u>	<u>DATE</u>
	FRANK MOORE		
FRANK MOORE	Aug 19, 2020	AJV-A433	06/02/2020

APPROVED BY

	<i>Digitally signed by</i>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
	DAVID TEFFETELLER			
LONNIE EVERHART	Nov 02, 2020	AJV-A430		MANAGER

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZDV, DEN ATCT, APA ATCT, AMGR, CO AERO.

CHANGES - REASONS:

QUALITY
3
CHECKED

- 1. CHANGED RWY 17L CLIMB GRADIENT FROM 255 TO 257 - NEW CG CONTROLLING OBSTACLE.
- 2. CHANGED RWY 17R CLIMB GRADIENT FROM 370 TO 372 - NEW TARGETS EVALUATION.
- 3. UPDATED TAKEOFF OBSTACLE NOTES - NEW TARGETS EVALUATION, REPLACES NOTAM 0/4406.
- 4. MODIFIED OBSTACLE MANDATING ODP ROUTE DEVELOPMENT - TARGETS EVALUATION.

