

**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>
KGNT	GRANTS	NM	1	20 APRIL 2023

TAKEOFF MINIMUMS:

RWY 31: NA - OBSTACLES.

RWY 13: STANDARD WITH MINIMUM CLIMB OF 420 FT PER NM TO 9000 OR 4600-5 FOR VCOA.

TEXTUAL DEPARTURE PROCEDURES:

RWY 13: CLIMB ON HEADING 133.95 TO INTERCEPT ABQ VORTAC R-255 TO CARTY, CROSS CARTY AT OR ABOVE MEA FOR ROUTE OF FLIGHT.

VISUAL CLIMB OVER AIRPORT:

RWY 13: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS GRANTS-MILAN MUNI AIRPORT AT OR ABOVE 11000 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 13, TREES BEGINNING 33 FT FROM DER, 184 FT RIGHT OF CENTERLINE, UP TO 4 FT AGL/6527 FT MSL.

TREE 62 FT FROM DER, 375 FT RIGHT OF CENTERLINE, 6 FT AGL/6528 FT MSL.

TREE 140 FT FROM DER, 488 FT RIGHT OF CENTERLINE, 5 FT AGL/6529 FT MSL.

TREE 5165 FT FROM DER, 1870 FT RIGHT OF CENTERLINE, 55 FT AGL/6680 FT MSL.

CONTROLLING OBSTACLES:

RWY 13: 6680 FT MSL TREES 350848.00N/1075330.00W.

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 13: 11559 FT MSL AAO 351418.00N/1073630.00W.

VISUAL CLIMB AREA OBSTACLE: 8216 FT MSL AAO 350742.00N/1080109.00W.

OBSTACLE OUTSIDE VISUAL CLIMB AREA MANDATING VCOA CLIMB TO ALTITUDE: 11559 FT MSL AAO 351418.00N/1073630.00W.

REMARKS:

CHART NOTE: WESTBOUND DEPARTURES, EXPECT RADAR VECTORS AT CARTY.

CHART NOTE: DME REQUIRED FOR DEPARTURES BELOW 10000 FT.

55 FT VEGETATION HEIGHT USED PER FPT.

AFS APPROVAL REQUEST SUBMITTED FOR ROUTED DEPARTURE. INSTEAD OF DIVERSE DEPARTURE, ROUTED DEPARTURE DEVELOPED DUE TO HIGHER MINIMUMS REQUIRING OBSTACLE CLEARANCE. RWY 13 DIVERSE DEPARTURE WILL REQUIRE CLIMB GRADIENT OF 490 FT/NM AND A CLIMB GRADIENT TERMINATION ALTITUDE OF 12900 FT TO CLEAR ALL OBSTACLES.

AFS WAIVER FOR DR LEG LONGER THAN 10 NM. 11NM DR LEG IS REQUIRED FOR ADEQUATE TERRAIN CLEARANCE, AND PROVIDES A DIRECT LEG TO CONNECT TO ENROUTE STRUCTURE.

FLIGHT INSPECTED BY

GARY BELL

Digitally signed by

ERIC N SUSKI

Feb 10, 2023

OFFICE

FPO

DATE

02/09/2023

DEVELOPED BY

PARNELL PRASSADA

Digitally signed by

ERIC N SUSKI

Nov 07, 2022

OFFICE

AJV-A431

DATE

10/28/2022

APPROVED BY

JOHNNIE BAKER

Digitally signed by

ERIC N SUSKI

Nov 07, 2022

OFFICE

AJV-A430

DATE

TITLE

MANAGER

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZAB, AMGR, ST AV DIR

CHANGES - REASONS:

1. REMOVED 2400-2 FROM RWY 13 TAKEOFF MINIMUMS - PER ATC REQUEST; NO RWY 13 SEE AND AVOID OBSTACLES TO MITIGATE.
2. ADDED "OBSTACLES" AS A REASON TO EXPLAIN WHY RWY 31 IS NA FOR TAKEOFF - IAW 8260.46H, APPENDIX D, (6).
3. ADDED "STANDARD WITH MINIMUM CLIMB OF 420 FT PER NM TO 9000 OR 4600-5 FOR VCOA" TO TAKEOFF MINIMUMS - TO CLEAR ROUTED DEPARTURE OBSTACLES, AND ENABLE AIRCRAFT TO ENTER NAVAID RECEPTION RANGE EXPEDITIOUSLY.
4. CHANGED TEXTUAL DEPARTURE PROCEDURE FROM "RWY 13: CLIMB RUNWAY HEADING TO JOIN V12 AT OR ABOVE 11000 BEFORE PROCEEDING ON COURSE" TO "RWY 13: CLIMB ON HEADING 133.95 TO INTERCEPT ABQ VORTAC R-255 TO CARTY, CROSS CARTY AT OR ABOVE MEA FOR ROUTE OF FLIGHT - IAW 8260.46H, APPENDIX D, (7).
5. ADDED "RWY 13: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS GRANTS-MILAN MUNI AIRPORT AT OR ABOVE 11000 BEFORE PROCEEDING ON COURSE" - IAW 8260.46H, 2-1-1 (B) (11).
6. UPDATED TAKEOFF OBSTACLE NOTES - IAW 8260.46H, APPENDIX D (9).
7. ADDED CLIMB GRADIENT CONTROLLING OBSTACLE, OBSTACLES MANDATING ODP ROUTE DEVELOPMENT, VISUAL CLIMB AREA OBSTACLE, AND OBSTACLE OUTSIDE VISUAL CLIMB AREA MANDATING VCOA CLIMB TO ALTITUDE TO CONTROLLING OBSTACLE - IAW 8260.46H, APPENDIX D

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(10).

8. ADDED "CHART NOTE: WESTBOUND DEPARTURES, EXPECT RADAR VECTORS AT CARTY" IN REMARKS - IAW 8260.46H, APPENDIX D (11); DUE TO MOUNTAINOUS TERRAIN, SOME AIRCRAFT MAY BE UNABLE TO CLIMB TO WESTBOUND MEA (11000 FT). THEREFORE, AIRCRAFT WILL FLY TO CARTY TO GAIN MEA; HENCE, ATC VECTOR IS REQUIRED TO SAFELY JOIN WESTWARD ROUTE.

9. ADDED "CHART NOTE: DME REQUIRED FOR DEPARTURES BELOW 10000 FT" IN REMARKS - CARTY CAN ONLY BE UTILIZED AS A DME FIX BELOW 10000 FT.

10. ADDED "55 FT VEGETATION HEIGHT USED PER FPT" IN REMARKS - REFERENCE FOR FUTURE EVALUATION.

11. ADDED "AFS APPROVAL REQUEST SUBMITTED FOR ROUTED DEPARTURE. INSTEAD OF DIVERSE DEPARTURE, ROUTED DEPARTURE DEVELOPED DUE TO HIGHER MINIMUMS REQUIRING OBSTACLE CLEARANCE. RWY 13 DIVERSE DEPARTURE WILL REQUIRE CLIMB GRADIENT OF 490 FT/NM AND A CLIMB GRADIENT TERMINATION ALTITUDE OF 12900 FT TO CLEAR ALL OBSTACLES" AND "AFS WAIVER FOR DR LEG LONGER THAN 10 NM. 11NM DR LEG IS REQUIRED FOR ADEQUATE TERRAIN CLEARANCE, AND PROVIDES A DIRECT LEG TO CONNECT TO ENROUTE STRUCTURE" IN REMARKS - FUTURE REFERENCE FOR REVIEWERS AND DEVELOPERS.

QUALITY
12
CHECKED