

**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>
MOJAVE AIR AND SPACE PORT	KMHV	MOJAVE	CA	3	23 FEBRUARY 2023

TAKEOFF MINIMUMS:

RWY 4, 8: NA - RESTRICTED AIRSPACE.

RWY 12: USE GLAZY DEPARTURE.

RWY 22: STANDARD WITH MINIMUM CLIMB OF 271 FT PER NM TO 3500 OR 2800-3 FOR CLIMB IN VISUAL CONDITIONS.

RWY 26: STANDARD WITH MINIMUM CLIMB OF 440 FT PER NM TO 3900 OR 2800-3 FOR CLIMB IN VISUAL CONDITIONS.

RWY 30: STANDARD WITH MINIMUM CLIMB OF 540 FT PER NM TO 4900 OR 2800-3 FOR CLIMB IN VISUAL CONDITIONS.

TEXTUAL DEPARTURE PROCEDURES:

RWY 12: USE GLAZY DEPARTURE.

RWY 22: CLIMB ON HEADING 217.79 TO 8000 AND LHS R-023 TO LHS VORTAC.

RWY 26: CLIMBING LEFT TURN HEADING 218.00 TO 8000 AND LHS R-023 TO LHS VORTAC.

RWY 30: CLIMBING LEFT TURN HEADING 218.00 TO 8000 AND LHS R-023 TO LHS VORTAC.

VISUAL CLIMB OVER AIRPORT:

RWY 22: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS WAVOR (LHS 023/29 DME) SOUTHWEST BOUND AT OR ABOVE 5500, THEN CLIMB TO 8000 ON LHS R-023 TO LHS VORTAC.

RWY 26: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS WAVOR (LHS 023/29 DME) SOUTHWEST BOUND AT OR ABOVE 5500, THEN CLIMB TO 8000 ON LHS R-023 TO LHS VORTAC.

RWY 30: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS WAVOR (LHS 023/29 DME) SOUTHWEST BOUND AT OR ABOVE 5500, THEN CLIMB TO 8000 ON LHS R-023 TO LHS VORTAC.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 22, TERRAIN 9 FT FROM DER, 492 FT RIGHT OF CENTERLINE, 2786 FT MSL.

TOWER, ANTENNA BEGINNING 2517 FT FROM DER, 82 FT LEFT OF CENTERLINE, UP TO 93 FT AGL/2870 FT MSL.

NOTE: RWY 26, SIGN 31 FT FROM DER, 339 FT RIGHT OF CENTERLINE, 5 FT AGL/2788 FT MSL.

POLE 494 FT FROM DER, 420 FT LEFT OF CENTERLINE, 33 FT AGL/2808 FT MSL.

TOWER 1796 FT FROM DER, 616 FT LEFT OF CENTERLINE, 52 FT AGL/2838 FT MSL.

TRANSMISSION LINES BEGINNING 1.8 NM FROM DER, 299 FT RIGHT OF CENTERLINE, UP TO 178 FT AGL/3171 FT MSL.

TRANSMISSION LINES BEGINNING 1.9 NM FROM DER, 282 FT LEFT OF CENTERLINE, UP TO 178 FT AGL/3123 FT MSL.

TOWER, WINDMILLS BEGINNING 2.3 NM FROM DER, 1129 FT RIGHT OF CENTERLINE, UP TO 413 FT AGL/3458 FT MSL.

WINDMILLS BEGINNING 2.3 NM FROM DER, 2308 FT LEFT OF CENTERLINE, UP TO 413 FT AGL/3371 FT MSL.

WINDMILLS BEGINNING 2.4 NM FROM DER, 30 FT RIGHT OF CENTERLINE, UP TO 413 FT AGL/3538 FT MSL.

WINDMILLS BEGINNING 2.4 NM FROM DER, 3367 FT LEFT OF CENTERLINE, UP TO 412 FT AGL/3372 FT MSL.

WINDMILLS BEGINNING 2.5 NM FROM DER, 364 FT LEFT OF CENTERLINE, UP TO 414 FT AGL/3451 FT MSL.



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NOTE: RWY 30, VEGETATION 304 FT FROM DER, 456 FT RIGHT OF CENTERLINE, 2817 FT MSL.
 VEHICLES ON ROAD BEGINNING 1241 FT FROM DER, 322 FT RIGHT OF CENTERLINE, UP TO 2836 FT MSL.
 VEHICLES ON ROAD 1300 FT FROM DER, 464 FT LEFT OF CENTERLINE, 2834 FT MSL.
 VEHICLES ON ROAD 1413 FT FROM DER, 489 FT RIGHT OF CENTERLINE, 2845 FT MSL.
 VEHICLES ON ROAD BEGINNING 1441 FT FROM DER, 9 FT LEFT OF CENTERLINE, UP TO 2845 FT MSL.
 POLE 3082 FT FROM DER, 305 FT RIGHT OF CENTERLINE, 34 FT AGL/2889 FT MSL.
 POLES BEGINNING 3095 FT FROM DER, 552 FT RIGHT OF CENTERLINE, UP TO 34 FT AGL/2892 FT MSL.
 TERRAIN 1 NM FROM DER, 2233 FT RIGHT OF CENTERLINE, 2966 FT MSL.
 TERRAIN BEGINNING 1.1 NM FROM DER, 2144 FT RIGHT OF CENTERLINE, UP TO 2976 FT MSL.
 TERRAIN 1.2 NM FROM DER, 2418 FT RIGHT OF CENTERLINE, 2985 FT MSL.
 TOWER 1.3 NM FROM DER, 1658 FT LEFT OF CENTERLINE, 40 FT AGL/3013 FT MSL.
 TRANSMISSION LINES BEGINNING 2 NM FROM DER, 1764 FT LEFT OF CENTERLINE, UP TO 188 FT AGL/3315 FT MSL.
 TRANSMISSION LINES BEGINNING 2.1 NM FROM DER, 135 FT LEFT OF CENTERLINE, UP TO 196 FT AGL/3317 FT MSL.
 TRANSMISSION LINE, TOWERS BEGINNING 2.1 NM FROM DER, 356 FT RIGHT OF CENTERLINE, UP TO 188 FT AGL/3293 FT MSL.
 TRANSMISSION LINE 2.4 NM FROM DER, 2850 FT LEFT OF CENTERLINE, 105 FT AGL/3324 FT MSL.
 WINDMILL 2.5 NM FROM DER, 4200 FT LEFT OF CENTERLINE, 420 FT AGL/3670 FT MSL.

CONTROLLING OBSTACLES:

RWY 22: 3307 FT MSL WINDMILL 350230.07N/1181248.90W

RWY 26: 3458 FT MSL WINDMILL 350333.82N/1181259.87W

RWY 30: 4247 FT MSL WINDMILL 350606.21N/1181350.95W

VISUAL CLIMB AREA OBSTACLE: 4526 FT MSL WINDMILL 350636.79N/1181331.77W

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 22, 26, 30: 5891 FT MSL WINDMILL 350123.83N/1182327.86W

REMARKS:

AFS APPROVAL OBTAINED FOR RWY 30 CLIMB GRADIENT OF 540 FT PER NM; IN EXCESS OF 500 FT PER NM, 8260.46H 2-1-1.D(2).
 AFS WAIVER ON FILE TO REMAIN TEXTUAL DEPARTURE WITH TWO TURNS, DEPARTURE INSTRUCTIONS ARE CLEAR, 8260.46H 2-1-1(B)(4)(A).

FLIGHT INSPECTED BY

Digitally signed by

OFFICE

DATE

BRANDON EASTIN

DAVID DANNER

FIOG

06/02/2022

Dec 21, 2022

DEVELOPED BY

Digitally signed by

OFFICE

DATE

ANTHONY CAPPABIANCO

ANTHONY J CAPPABIANCO

AJV-A411

11/23/2021

Jul 21, 2022

APPROVED BY

Digitally signed by

OFFICE

DATE

TITLE

JULIE MORGAN

DAVID DANNER

AJV-A410

MANAGER

Dec 21, 2022

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:** AMGR, ZLA, SOCIAL TRACON



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CHANGES - REASONS:

1. CHANGED RWY 26 TAKEOFF MINIMUMS FROM "STANDARD WITH MINIMUM CLIMB OF 415 FT PER NM TO 6800 OR 4100-3 FOR CLIMB IN VISUAL CONDITIONS" TO "STANDARD WITH MINIMUM CLIMB OF 440 FT PER NM TO 3900 OR 2800-3 FOR CLIMB IN VISUAL CONDITIONS" - NEW CONTROLLING OBSTACLE, VCOA CLIMB-TO ALTITUDE.
2. CHANGED RWY 30 TAKEOFF MINIMUMS FROM "STANDARD WITH MINIMUM CLIMB OF 510 FT PER NM TO 5600 OR 4100-3 FOR CLIMB IN VISUAL CONDITIONS" TO "STANDARD WITH MINIMUM CLIMB OF 540 FT PER NM TO 4900 OR 2800-3 FOR CLIMB IN VISUAL CONDITIONS" - NEW CONTROLLING OBSTACLE, VCOA CLIMB-TO ALTITUDE.
3. CHANGED ALL INSTANCES OF "MOJAVE AIRPORT" TO "MOJAVE AIR AND SPACE PORT" IN VISUAL CLIMB OVER AIRPORT - CURRENT AIRNAV DATA.
4. UPDATED RWY 22, 26, 30 TAKEOFF OBSTACLE NOTES - NEW OBSTACLE EVALUATION.
5. CHANGED RWY 22 CONTROLLING OBSTACLE FROM "3596 FT MSL WINDMILL 350114.85N/1181531.91W" TO "3307 FT MSL WINDMILL 350230.07N/1181248.90W" - NEW OBSTACLE EVALUATION.
6. CHANGED RWY 26 CONTROLLING OBSTACLE FROM "4399 FT MSL AAO 350446.90N/1181619.84W" TO "3458 FT MSL WINDMILL 350333.82N/1181259.87W" - NEW OBSTACLE EVALUATION.
7. CHANGED RWY 30 CONTROLLING OBSTACLE FROM "4893 FT MSL WINDMILL 350533.60N/1181555.80W" TO "4247 FT MSL WINDMILL 350606.21N/1181350.95W" - NEW OBSTACLE EVALUATION.
8. ADDED "OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 22, 26, 30: 5891 FT MSL WINDMILL 350123.83N/1182327.86W" TO CONTROLLING OBSTACLES - 8260.46H APPENDIX D, SECTION 1.10.C.
9. CHANGED "RWY 22, 26, 30 (VCOA): 4390 MSL AAO 345848.90N/1181112.60W" TO "VISUAL CLIMB AREA OBSTACLE: 4526 FT MSL WINDMILL 350636.79N/1181331.77W" IN CONTROLLING OSBTACLES - NEW OBSTACLE EVALUATION, 8260.46H APPENDIX D, SECTION 1.10.D.
10. ADDED "AFS APPROVAL OBTAINED FOR RWY 30 CLIMB GRADIENT OF 540 FT PER NM; IN EXCESS OF 500 FT PER NM, 8260.46H 2-1-1.D(2)" TO REMARKS - REQUIRED TO CLEAR CONTROLLING OBSTACLE, SPEED RESTRICTION TO AVOID OBSTACLE DEEMED NOT IDEAL.
11. ADDED "AFS WAIVER ON FILE TO REMAIN TEXTUAL DEPARTURE WITH TWO TURNS, DEPARTURE INSTRUCTIONS ARE CLEAR, 8260.46H 2-1-1 (B)(4)(A)" TO REMARKS - KEEPING AS TEXTUAL DEPARTURE TO REDUCE PILOT PLANNING TIME, PREVENT NEED TO REFER TO TWO SEPARATE PROCEDURES.
12. CHANGED RWY 12 TAKEOFF MINIMUMS FROM "NA - RESTRICTED AIRSPACE" TO "USE GLAZY DEPARTURE" - NEW GLAZY SID DEVELOPED BY HUGHES.
13. ADDED "USE GLAZY DEPARTURE" TO TEXTUAL DEPARTURE PROCEDURES - NEW GLAZY SID DEVELOPED BY HUGHES.
14. CHANGED RWY 22 TAKEOFF MINIMUMS FROM "STANDARD WITH MINIMUM CLIMB OF 415 FT PER NM TO 6800 OR 4100-3 FOR CLIMB IN VISUAL CONDITIONS" TO "STANDARD WITH MINIMUM CLIMB OF 271 FT PER NM TO 3500 OR 2800-3 FOR CLIMB IN VISUAL CONDITIONS" - NEW CONTROLLING OBSTACLE, VCOA CLIMB-TO ALTITUDE.
15. CHANGED RWY 22, 26, 30 VISUAL CLIMB OVER AIRPORT INSTRUCTIONS FROM "...CROSS MOJAVE AIR AND SPACE PORT SOUTHWEST BOUND AT OR ABOVE 6800..." TO "CROSS MOJAVE AIR AND SPACE PORT SOUTHWEST BOUND AT OR ABOVE 5500..." - NEW OBSTACLE EVALUATION.

07/19/2022: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 11/23/2021.

1. RWY 22 TEXTUAL DEPARTURE PROCEDURE CHANGED FROM "CLIMB TO 8000 HEADING 217.79 AND LHS R-023 TO LHS VORTAC" TO "CLIMB ON HEADING 217.79 TO 8000 AND LHS R-023 TO LHS VORTAC."
2. RWY 26 TEXTUAL DEPARTURE PROCEDURE CHANGED FROM "CLIMBING LEFT TURN TO 8000 HEADING 218.00 AND LHS R-023 TO LHS VORTAC" TO "CLIMBING LEFT TURN HEADING 218.00 TO 8000 AND LHS R-023 TO LHS VORTAC"
3. RWY 30 TEXTUAL DEPARTURE PROCEDURE CHANGED FROM "CLIMBING LEFT TURN TO 8000 HEADING 218.00 AND LHS R-023 TO LHS VORTAC" TO "CLIMBING LEFT TURN HEADING 218.00 TO 8000 AND LHS R-023 TO LHS VORTAC."
4. RWY 22 VISUAL CLIMB OVER AIRPORT CHANGED FROM "...TO CROSS MOJAVE AIR AND SPACE PORT...ON JHS R-023..." TO "...TO CROSS WAVOR (LHS 023/29 DME)...ON LHS R-023..."
5. RWY 26 VISUAL CLIMB OVER AIRPORT CHANGED FROM "...TO CROSS MOJAVE AIR AND SPACE PORT...ON JHS R-023..." TO "...TO CROSS WAVOR (LHS 023/29 DME)...ON LHS R-023..."
6. RWY 30 VISUAL CLIMB OVER AIRPORT CHANGED FROM "...TO CROSS MOJAVE AIR AND SPACE PORT...ON JHS R-023..." TO "...TO CROSS WAVOR (LHS 023/29 DME)...ON LHS R-023..."

