

**FEDERAL AVIATION ADMINISTRATION  
 FLIGHT STANDARDS SERVICE  
 RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE  
 TITLE 14 CFR PART 97.33**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.  
 Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT</u> MOJAVE AIR AND SPACE PORT	<u>AIRPORT ID</u> KMHV	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 4	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> MOJAVE	<u>STATE</u> CA
<u>AIRPORT ELEVATION</u> 2801	<u>TDZE</u> 2780	<u>SUPERSEDED</u> GPS RWY 4	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 09/24/2009	<u>MAG VAR</u> 14E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 26 MARCH 2020	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2000

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ZALJE		JERID		TF	FB	1.00	118.79	4.80	8000
LHS VORTAC		JERID		TF	FB	1.00	026.71	15.02	8000
PMD VORTAC		JERID		TF	FB	1.00	299.00	21.24	8000
JERID	IAF	ETFIR		TF	FB	1.00	028.82	4.73	6200
ETFIR	IF	AGRUF		TF	FB	1.00	029.11	3.65	5300
AGRUF		MLISA		TF	FB	1.00	029.14	1.98	4700
MLISA	FAF	YITUY/2.18 NM TO UCASU		TF	FB	0.30	029.17	2.35	
YITUY/2.18 NM TO UCASU		UCASU	MAP	TF	FO	0.30	029.17	2.18	
UCASU	MAP	3300 MSL		CA			029.17		3300
3300 MSL		ENAMY		DF	FO	1.00			7000

**MISSED APPROACH**

**MAP:**

LP: UCASU  
 LNAV: UCASU

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3300 THEN CLIMBING LEFT TURN TO 7000 DIRECT ENAMY AND HOLD, CONTINUE CLIMB-IN-HOLD TO 7000.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



**PROFILE:**

- 1. **PT**      **SIDE OF COURSE**                      **OUTBOUND**                      **FT WITHIN**                      **MILES OF (IAF)**
- 2. PROFILE STARTS AT JERID
- 3. **FAC:** 029.17      **FAF:** MLISA                      **DIST FAF TO MAP:** 4.54                      **DIST FAF TO THLD:** 5.03
- 4. **MIN ALT:** JERID 8000, ETFIR 6200, AGRUF 5300, MLISA 4700, YITUY/2.18 NM TO UCASU 3820
- 5. **DIST TO THLD FROM OM:**                      **MM:**                      **IM:**                      **150 HAT:**                      **GS ANT:**
- 6. **MIN GP INCPT:**                      **GP ALT AT FAF :**                      **OM:**                      **MM:**                      **IM:**
- 7. **GP ANGLE:**                      **34:1:** IS NOT CLEAR      **20:1:** IS CLEAR                      **TCH:**
- 8. **MSA FROM:** UCASU 9700

**PBN REQUIREMENTS NOTE:**

RNP APCH.

**NOTES:**

- CHART NOTE: CIRCLING NA SE OF RWY 4 AND S OF RWY 26.
- CHART NOTE: RWY 4 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
- CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LHS VORTAC ON V165-459, T259 SOUTHEAST BOUND.
- CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON PMD VORTAC AIRWAY RADIALS 218 CW 298.
- CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

**ADDITIONAL FLIGHT DATA:**

- FICTITIOUS THRESHOLD POINT: (CFMBL) DO NOT CHART.
- CHART CIRCLING ICON.
- MLISA TO RW4: 3.50/50.
- CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 8.56 DEGREES.
- CHART R-2515, ISABELLA MOA, BAKERSFIELD MOA, BUCKHORN MOA
- WAAS CHANNEL #77743
- REFERENCE PATH ID: W04A
- CHART FAS OBST: 2870 TOWER 350319N/1181015W.
- CHART: 3490 WINDMILL 350030N/1181444W, 3596 WINDMILL 350050N/1181541W, 3315 WINDMILL 350156N/1181258W.
- FAC CROSSES RWY C/L EXTENDED 3000 FT FROM THLD.
- HOLD N, RT, 197.13 INBOUND
- FTP HAE: 815.8 M

**MINIMUMS:**

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

**ALTERNATE:** NA  STANDARD - CAT C 1400-3, CAT D 1700-3, NA WHEN LOCAL WEATHER NOT AVAILABLE.



CATEGORY:	A			B			C			D			E		
	FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS
LP MDA	3180	1	400	3180	1	400	3180	1 1/8	400	3180	1 1/8	400			
LNAV MDA	3180	1	400	3180	1	400	3180	1 1/8	400	3180	1 1/8	400			
CIRCLING	3300	1	499	3480	1	679	4140	3	1339	4500	3	1699			

**CHANGES - REASONS**

1. PROCEDURE NAME CHANGED FROM GPS RWY 4 TO RNAV (GPS) RWY 4 - PROCEDURE REDESIGNED AS A RNAV (GPS) APPROACH
2. CHANGED TDZE FROM 2778 TO 2780 - CURRENT AIRNAV DATA
3. CHANGED AIRPORT ELEVATION FROM 2791 TO 2801 - CURRENT AIRNAV DATA
4. INCORPORATED ALL CHANGES FROM P NOTAM 9/1139 -8260.19H 8-34.C(1)
5. REMOVED "MIRL RWY 8-26 (PCL)", "HIRL RWY 12-30 (PCL)", AND PAPI (P2L) RWY 26" FROM ADDITION FLIGHT DATA - NOT REQUIRED PER CURRENT DOCUMENTATION CRITERIA
6. CHANGED VDA/TCH IN ADDITIONAL FLIGHT DATA FROM 3.53/50 TO 3.50/50 - VDA LOWERED TO ALLOW FOR CAT D MINS
7. REMOVED S-4 LINE OF MINIMUMS AND ADDED LNAV AND LP LINE OF MINIMUMS - CURRENT RNAV CRITERIA FOR FINAL TYPES AND TO ALLOW MORE USERS ACCESS TO THE RUNWAY
8. ADDED CAT D STRAIGHT-IN AND CIRCLING MINS - ALLOW MORE USERS ACCESS TO AIRPORT
9. CIRCLING CAT A CMDA/HAA CHANGED FROM 3520/729 TO 3300/499, CIRCLING CAT B CMDA/HAA CHANGED FROM 3520/729 TO 3480/679, AND CIRCLING CAT C CMDA/HAA CHANGED FROM 3520/729 TO 4140/1339 - APPLICATION OF EXPANDED CIRCLING CRITERIA
10. CIRCLING CAT C VIS CHANGED FROM 2 SM TO 3 SM - CMDA INCREASED FROM 3520 TO 4500
11. ADDED RNP APCH TO PNB REQUIREMENT NOTES - REQUIRED PER CURRENT DOCUMENTATION CRITERIA
12. ADDED CHART CIRCLING ICON TO ADDITIONAL FLIGHT DATA - APPLICATION OF EXPANDED CIRCLING CRITERIA
13. NAMED FINAL SEGMENT STEPDOWN FIX YITUY - REQUIRED PER 8260.19H
14. ADDED DIST FAF TO MAP 4.54 ON LINE 3 - REQUIRED FOR RNAV APPROACHES
15. CHANGE DIST FAF TO THLD FROM 5.00 TO 5.03 - PFAF MOVED DUE TO CURRENT PFAF LOCATION FORMULA
16. CHANGED CIRCLING RESTRICTION FROM SE OF RWY 4-22 TO SE OF RWY 4 AND S OF RWY 26 - ALLOW MORE AREA TO CIRCLE WITHOUT IMPEDING ON EDWARDS AFB RESTRICTED AREA
17. ADDED ALTERNATE MINIMUMS TO APPROACH - KMHV HAS AWOS 3 ON WMSCR
18. REMOVED "WP" FROM ALL FIX NAMES - NOT REQUIRED FOR WAYPOINTS PER CURRENT DOCUMENTATION CRITERIA
19. NAMED INTERMEDIATE STEPDOWN FIX AGRUF - REQUIRED PER CURRENT DOCUMENTATION CRITERIA
20. ADDED "VGS I AND DESCENT ANGLES NOT COINCIDENT (VGS I ANGLE {ANGLE}/TCH {FEET})" - VGS I VDA 4.00 DEGREES
21. CHANGED MSA ALTITUDE FROM 9800 TO 9700 - NEW CONTROLLING OBSTACLE
22. REMOVED 3319 WINDMILL, 3319 WINDMILL, AND 3049 POWERLINE FROM ADDITIONAL FLIGHT DATA AND ADDED 3490 WINDMILL, 3596 WINDMILL, AND 3315 WINDMILL - CURRENT 7:1 OBSTACLES BASED ON FIX PLACEMENT
23. CHANGED LHS VORTAC TO JERID COURSE FROM 026.72 TO 026.71 - TARGETS EVALUATIONS OF COURSE BETWEEN FIX LOCATIONS
24. CHANGED ZLAJE TO JERID COURSE FROM 118.76 TO 118.79 - TARGETS EVALUATION OF COURSE BETWEEN FIX LOCATIONS
25. CHANGED JERID TO ETFIR DISTANCE FROM 5.38 TO 4.73 - ETFIR MOVED 3966 FT SOUTHWEST TO ALLOW ATC VECTORS TO IF SEGMENT
26. CHANGED ETFIR TO IF STEPDOWN FIX (AGRUF) FROM 029.13/3.00 TO 029.11/3.65 - ETFIR MOVED 3966 FT SOUTHWEST TO ALLOW ATC VECTORS TO IF SEGMENT
27. CHANGED IF STEPDOWN FIX (AGRUF) TO MLISA COURSE/DISTANCE FROM 029.13/2.00 TO 029.14/1.98 - MLISA MOVED 104 FT SW TO MEET CURRENT PFAF LOCATION REQUIREMENTS
28. REPLACED 2.01 ATD TO UCASU WP 3760 WITH YITUY/2.18 NM TO UCASU 3820 - NAMED FINAL STEPDOWN FIX AND MOVED IT 0.17 NM SOUTHWEST TO MAINTAIN GLIDEPATH
29. CHANGED FAS OBST IN ADDITIONAL FLIGHT DATA FROM 2948 TREE TO 2870 TOWER - CRITERIA REQUIRED FAS OBSTACLE FOR BOTH LP AND LNAV. BOTH FINALS HAVE SAME CONTROLLING OBSTACLE
30. ADDED "FINAL APPROACH COURSE OFFSET 8.56 DEGREES" TO ADDITIONAL FLIGHT DATA - REQUIRED NOTE FOR OFFSET APPROACHES
31. CHANGED MISSED APPROACH TO READ "CLIMB TO 3300 THEN CLIMBING LEFT TURN TO 7000 DIRECT ENEMY AND HOLD, CONTINUE CLIMB-IN-HOLD TO 7000" - CURRENT CRITERIA REQUIRED CA LEG, CLIMB IN HOLD REQUIRED SINCE AIRCRAFT ALTITUDE DOES NOT MEET HOLDING ALTITUDE, AND ALTITUDE CHANGED PER AIR TRAFFIC REQUEST
32. ADDED WAAS CHANNEL #77743 AND REFERENCE PATH ID: W04A TO ADDITIONAL FLIGHT DATA - REQUIRED FOR LP APPROACHES
33. CHANGED HOLDING COURSE FROM 197 TO 197.13 INBOUND IN ADDITIONAL FLIGHT DATA - ALIGNED WITH OPPOSITE RUNWAY HOLDING COURSE
34. ADDED FTP HAE: 815.8 M TO ADDITIONAL FLIGHT DATA - REQUIRED FOR LP APPROACHES
35. ADDED "CHART NOTE: RWY 4 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NA" - 34:1 PENETRATIONS IDENTIFIED
36. ADDED "FICTITIOUS THRESHOLD POINT: (CFMBL) DO NOT CHART" TO ADDITIONAL FLIGHT DATA - CNF FIX REQUIRED FOR LP FAS DATA
37. ADDED BAKERSFIELD AND BUCKHORN MOAS FOR CHARTING IN ADDITIONAL FLIGHT DATA - NEEDED FOR AWARENESS OF MILITARY TRAINING AREAS IN CLOSE PROXIMITY TO APPROACH
38. ADDED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON PMD VORTAC AIRWAY RADIALS 218 CW 298" - TURN ANGLE ONTO FEEDER ROUTE GREATER THAN 90 DEGREES
39. ADDED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL SAT LHS VORTAC ON V165-459 SOUTHEAST BOUND" - TURN ANGLE ONTO FEEDER ROUTE GREATER THAN 90 DEGREES

**COORDINATED WITH:**

**A4A**  **ALPA**  **AOPA**  **APA**  **HAI**  **NBAA**  **OTHER:** ZLA, JOSHUA APP CON, MHV ATCT, AMGR, CA AERO

**FLIGHT CHECKED BY**

ROBERT RICHARDSON

**OFFICE**

FICO

**DATE**

12/19/2019

*Digitally signed by*

**ALLAN WILL**

Jan 16, 2020

**DEVELOPED BY**

KELLIE R. BARNES

*Digitally signed by*

**Kellie R Barnes**

Oct 21, 2019

**OFFICE**

AJV-A423

**DATE**

09/19/2019

**APPROVED BY**

MARLON ROBINSON

**OFFICE**

AJV-A420

**DATE**

*Digitally signed by*

**ALLAN WILL**

Jan 16, 2020

**TITLE**  
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMHV
RUNWAY	RW04
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W04A
LTP/FTP LATITUDE	350338.3080N
LTP/FTP LONGITUDE	1180955.1150W
LTP/FTP ELLIPSOIDAL HEIGHT	+08158
FPAP LATITUDE	350443.3420N
FPAP LONGITUDE	1180840.7815W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.50
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
CRC REMAINDER	0B85172B

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+08473
FPAP ORTHOMETRIC HEIGHT	+08473

