

**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 ID</u> KALM	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 4	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> ALAMOGORDO	<u>STATE</u> NM		
<u>AIRPORT ELEVATION</u> 4200	<u>TDZE</u> 4150	<u>SUPERSEDED</u> RNAV (GPS) RWY 4	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 01/05/2017	<u>MAG VAR</u> 8E	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 22 APRIL 2021	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
CNX VORTAC		BAMIC		TF	FB	2.00	182.38	54.09	15000
BAMIC		WILOE		TF	FB	1.00	182.27	20.00	13700
WILOE		SAMMM		TF	FB	1.00	182.23	20.00	9200
SAMMM		JASAN		TF	FO	1.00	217.55	6.42	6000
PIO VOR/DME		LISSO		TF	FB	1.00	300.56	34.06	12000
LISSO		DOANN		TF	FB	1.00	260.63	5.69	11300
DOANN		SAMMM		TF	FB	1.00	216.21	4.94	9200
JASAN	IF/IAF	HEPRO		TF	FB	1.00	037.50	3.79	5300
HEPRO	FAF	RW04	MAP	TF	FO	0.30	037.53	3.29	
RW04	MAP	4600 MSL		CA			037.53		4600
4600 MSL		HALIC		DF	FO	1.00			6000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW04

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4600 THEN CLIMBING LEFT TURN TO 6000 DIRECT HALIC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
10
CHECKED

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. HOLD SW JASAN, RT, 037.50 INBOUND, 6000 FT. IN LIEU OF PT (IAF), MAX 12000.					
3. FAC:	037.53	FAF: HEPRO	DIST FAF TO MAP: 3.29	DIST FAF TO THLD: 3.29	
4. MIN ALT:	JASAN 6000, HEPRO 5300				
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	250 HAT: 0.64	GS ANT:
6. MIN GP INCPT:	5300	GP ALT AT FAF :	HEPRO 5300	OM:	MM:
7. GP ANGLE:	3.20	34:1:	IS CLEAR	20:1:	IS CLEAR
			TCH:	55.0	
8. MSA FROM:	RW04 11000				

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING NA TO RWYS 17 AND 35.
CHART NOTE: CIRCLING NA FOR CATS C AND D SE OF RWY 4-22.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -23°C OR ABOVE 54°C.
CHART NOTE: CIVIL AIRCRAFT REQUIRE ATC CLEARANCE PRIOR TO ENTERING RESTRICTED AREA 5107D.
CHART NOTE: PROCEDURE NA WHEN HOLLOMAN APPROACH CONTROL CLOSED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT PIO VOR/DME ON V280 SOUTHWEST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON CNX VORTAC AIRWAY RADIALS 111 CW 265.

ADDITIONAL FLIGHT DATA:

HOLD N, RT, 160.00 INBOUND.
CHART FAS OBST: 4239 TREE 325012N/1060033W.
CHART HMN AFB, R-5103B AND C, R-5107D.
CHART VDP AT 1.00 NM TO RW04*
*LNAV ONLY.
WAAS CHANNEL # 69240
REFERENCE PATH ID: W04A
CHART CIRCLING ICON.
LTP HAE: 1235.4 M



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

ALTERNATE: NA ☐ STANDARD - CAT C 800-2 1/4, CAT D 800-2 1/2, 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	HAT/HAA
LPV DA	4400	1	250	4400	1	250	4400	1	250	4400	1	250			
LNAV/VNAV DA	4420	1	270	4420	1	270	4420	1	270	4420	1	270			
LNAV MDA	4500	1	350	4500	1	350	4500	1	350	4500	1	350			
CIRCLING	4760	1	560	4880	1	680	4960	2 1/4	760	4960	2 1/2	760			

CHANGES - REASONS

1. REMOVED NOTE "RADAR REQUIRED" - ARRIVALS ARE PROCEDURALLY SEPARATED FROM RESTRICTED AIRSPACE, PER FPT/ATC.
2. DELETED "CHART NOTE: DME/DME RNP-0.3 NA" AND ADDED "RNP APCH - GPS" TO PBN REQUIREMENTS NOTE - IAW 8260.19I PARA 8-6-8.B (2).
3. ADDED "20:1: IS CLEAR" TO PROFILE LINE 7 - IAW 8260.19I PARA 8-6-7.G (3).
4. AMENDED NOTE FROM "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -29°C (-9°F) OR ABOVE 49°C (121°F)" TO " CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -23°C OR ABOVE 54°C" - IAW 8260.19I PARA 8-6-9.R.
5. ADDED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON CNX VORTAC AIRWAY RADIALS 111 CW 265." TURNS GREATER THAN 90 DEGREES - IAW 8260.19I PARA 8-2-5.E.
6. ADDED TERMINAL ROUTES PIO VOR/DME TO LISSO; LISSO TO MADEC; MADEC TO ZIBLU; ZIBLU TO JASAN; CNX VORTAC TO BAMIC; BAMIC TO WILOE; WILOE TO ZIBLU; ZIBLU TO JASAN; JASAN TO HEPRO - PER FPT REQUEST.
7. ADDED IF/HOLD IN LIEU SEGMENT AT JASAN - PER ATC REQUEST.
8. FIXES PAYNE, HONER, TORRI REMOVED - BWS VOR/DME BEING DECOMMISSIONED, PER FPT REQUEST.
9. LPV VISIBILITY CHANGED FROM 7/8 TO 1 ALL CATS, CIRCLING CAT C VISIBILITY CHANGED FROM 1 3/4 TO 2 1/4, CIRCLING CAT D VISIBILITY CHANGED FROM 3 TO 2 1/2 - NEW TARGETS EVALUATION.
10. CHANGED CHART NOTE "CIRCLING NA SOUTHEAST OF RWY 4-22." TO "CIRCLING NA FOR CATS C AND D SE OF RWY 4-22." - PER ATC REQUEST, IAW 8260.19I 8-6-11 O (5)(D).
11. ADDED NEW INITIAL, FINAL AND MISSED APPROACH SEGMENTS - PER FPT REQUEST AND NEW TARGETS EVALUATION.
12. CHANGED LPV HAT/MDA FROM 250/4401 TO 250/4400 - NEW AIRNAV INFO AND TARGETS OBSTACLE EVALUATION.
13. CHANGED LNAV/VNAV HAT/MDA FROM 293/4444 TO 270/4420 - NEW TARGETS OBSTACLE EVALUATION.
14. CHANGED LNAV HAT/MDA FROM 349/4500 TO 350/4500 - NEW TARGETS OBSTACLE EVALUATION.
15. GPA CHANGED FROM 3.00 TO 3.20 - PROCEDURE REDESIGN PER ATC/FPT.
16. CRC REMAINDER CHANGED FROM 30A1A094 TO 5F66048B - GPA CHANGED.
17. ADDED " CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT PIO VOR/DME ON V280 SOUTHWEST BOUND." - TURNS GREATER THAN 90 DEGREES - IAW 8260.19I PARA 8-2-5.E.

COORDINATED WITH:

~~A4A~~ ☐ ~~ALPA~~ ☒ ~~AOPA~~ ☒ ~~APA~~ ☐ ~~HAI~~ ☐ ~~NBAA~~ ☒ **OTHER:** ZAB, HMN APP CON, ALM APT MGR.

FLIGHT CHECKED BY
ANTHONY D VALLERA

Digitally signed by
JOHN BORDY
Mar 12, 2021

OFFICE
FICO

DATE
3/11/2021

DEVELOPED BY
JOHN BORDY (ERIC J APPENZELLER)

Digitally signed by
JOHN BORDY
Mar 12, 2021

OFFICE
AJV-A422

DATE
12/18/2020

APPROVED BY
MARLON ROBINSON

Digitally signed by
JOHN BORDY
Mar 12, 2021

OFFICE
AJV-A420

DATE

QUALITY
10
CHECKED
TITLE
MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KALM
RUNWAY	RW04
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W04A
LTP/FTP LATITUDE	324944.2790N
LTP/FTP LONGITUDE	1060013.8485W
LTP/FTP ELLIPSOIDAL HEIGHT	+12354
FPAP LATITUDE	325048.0610N
FPAP LONGITUDE	1055856.8050W
THRESHOLD CROSSING HEIGHT (TCH)	00055.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.20
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	5F66048B

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+12579
FPAP ORTHOMETRIC HEIGHT	+12579

