

**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> KCNM	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 21	<u>ORIGINAL/AMENDMENT</u> 1B	<u>CITY</u> CARLSBAD	<u>STATE</u> NM		
<u>AIRPORT ELEVATION</u> 3295	<u>TDZE</u> 3264	<u>SUPERSEDED</u> RNAV (GPS) RWY 21	<u>ORIGINAL/AMENDMENT</u> 1A	<u>DATED</u> 03/05/2015	<u>MAG VAR</u> 10E	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 27 JANUARY 2022	<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>
CNM VORTAC		KEREY		TF	FO	1.00	016.79	15.11	6000
HOMEX	IAF	KEREY	NOPT	TF	FB	1.00	283.71	12.27	5600
FATAP	IAF	KEREY	NOPT	TF	FB	1.00	128.22	25.12	5600
KEREY	IF/IAF	TIBQU		TF	FB	1.00	214.24	6.99	4900
TIBQU	FAF	RW21	MAP	TF	FO	0.30	214.19	5.01	
RW21	MAP	3514 MSL		CA			214.19		
3514 MSL		GUADO		DF	FB	1.00			
GUADO		LANIC		TF	FO	1.00	168.83	7.68	8000

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW21

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 8000 DIRECT GUADO AND ON TRACK 168.83 TO LANIC AND HOLD, CONTINUE CLIMB IN HOLD TO 8000.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD NE KEREY, RT, 214.24 INBOUND, 5600 FT. IN LIEU OF PT (IAF), MAX 14000.

3. FAF: 214.19FAF: TIBQUDIST FAF TO MAP: 5.01DIST FAF TO THLD: 5.01

4. MIN ALT: KEREY 5600, TIBQU 4900

5. DIST TO THLD FROM OM:MM:IM:150 HAT:250 HAT: 0.60GS ANT:

6. MIN GP INCPT: 4900GP ALT AT PFAF : TIBQU 4900OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS NOT CLEAR20:1: IS CLEARTCH: 58.0

8. MSA FROM: RW21 8100

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 21 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -10°C OR ABOVE 50°C.

ADDITIONAL FLIGHT DATA:

HOLD NE, RT, 210.00 INBOUND.  
CHART FAS OBST: 3313 TOWER (35-020299) 322044N/1041507W.  
CHART 3387 TOWER 322417N/1041115W.  
CHART VDP AT 0.86 NM TO RW21.  
WAAS CHANNEL # 90234  
REFERENCE PATH ID: W21A  
CHART CIRCLING ICON.  
LTP HAE: 965.4 M

MINIMUMS:

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

ALTERNATE: NA

☐

STANDARD - CAT D 1000-3

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	3514	3/4	250	3514	3/4	250	3514	3/4	250	3514	3/4	250			
LNAV/VNAV DA	3514	3/4	250	3514	3/4	250	3514	3/4	250	3514	3/4	250			
LNAV MDA	3580	1	316	3580	1	316	3580	7/8	316	3580	7/8	316			
CIRCLING	3700	1	405	3780	1	485	3960	1 3/4	665	4260	3	965			



**CHANGES - REASONS**

1. INCORPORATED CHANGES FROM P-NOTAM FOR AMDT 1A INTO THIS FORM - IAW 8260.19I PARA 8-3-4.C (3).
2. ADDED MAX 14000 TO PROFILE LINE 2 - IAW 8260.19I PARA 8-6-7.B (2).
3. ADDED 20:1: IS CLEAR TO PROFILE LINE 7 - IAW 8260.19I PARA 8-6-7.G (3).
4. REMOVED "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).
5. CHANGED UNCOMPENSATED BARO-VNAV CHART NOTE FROM: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -10°C (14°F) OR ABOVE 50°C (123°F)" TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -10°C OR ABOVE 50°C - IAW 8260.19I PARA 8-6-9.R.
6. CHANGED LNAV CAT C/D VISIBILITY FROM "1" TO "7/8" - IAW 8260.3E TABLE 3-3-1.
7. CHANGED HELICOPTER VISIBILITY REDUCTION CHART NOTE FROM: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED TO RWY 21 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. - 8260.19I, 8-6-11.K (3).
8. CHANGED ADDITIONAL FLIGHT DATA NOTE FROM CHART: 3385 TOWER 322417N/1041115W TO CHART 3387 TOWER 322417N/1041115W - ACCORDING TO OEAAA.
9. DELETED \*LNAV ONLY FROM ADDITIONAL FLIGHT DATA. - IAW 8260.19I PARA 8-6-10.M.
10. ADDED OBSTACLE NUMBER TO FAS OBST IN ADDITIONAL FLIGHT DATA - IAW 8260-19I 8-6-8 C.

**COORDINATED WITH:**

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

**FLIGHT CHECKED BY**

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

**OFFICE**

*Digitally signed by* **DATE**

**JON DENTON**

Sep 24, 2021

**DEVELOPED BY**

JON DENTON (KATHERINE EUBANKS)

*Digitally signed by*

**JON DENTON** **OFFICE**

Sep 24, 2021 AJV-A432

**DATE**

09/02/2021

**APPROVED BY**

LONNIE EVERHART

*Digitally signed by*

**JON DENTON**

Sep 24, 2021

**OFFICE**

AJV-A430

**DATE**

**TITLE**  
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCNM
RUNWAY	RW21
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W21A
LTP/FTP LATITUDE	322017.2935N
LTP/FTP LONGITUDE	1041523.5980W
LTP/FTP ELLIPSOIDAL HEIGHT	+09654
FPAP LATITUDE	321913.2200N
FPAP LONGITUDE	1041636.8400W
THRESHOLD CROSSING HEIGHT (TCH)	00058.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0360
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	8F3C7F42

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+09898
FPAP ORTHOMETRIC HEIGHT	+09898

