

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> MOUNTAIN VILLAGE	<u>AIRPORT ID</u> PAMO	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 20	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> MOUNTAIN VILLAGE	<u>STATE</u> AK	
<u>AIRPORT ELEVATION</u> 339	<u>TDZE</u> 339	<u>SUPERSEDED</u> RNAV (GPS) RWY 20	<u>ORIGINAL/AMENDMENT</u> 1C	<u>DATED</u> 10/12/2017	<u>MAG VAR</u> 10E	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 30 JANUARY 2020	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 113/30 CW 293/30	NOPT	113/10 CW 293/10		3900
2. 113/10 CW 293/10		BOPNE	IF/IAF	2600
3. 293/30 CW 023/30		293/10 CW 023/10		2900
4. 293/10 CW 023/10		ZAVAT	IAF	2600
5. 023/30 CW 113/30		023/10 CW 113/10		3800
6. 023/10 CW 113/10		WERIM	IAF	2600

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
WERIM	IAF	BOPNE	NOPT	TF	FB	1.00	112.52	8.00	2600
ZAVAT	IAF	BOPNE	NOPT	TF	FB	1.00	292.95	8.00	2600
BOPNE	IF/IAF	CATOE		TF	FB	1.00	202.73	6.00	2100
CATOE	FAF	NICRI/3.00 NM TO RW20		TF	FB	0.30	202.63	2.44	
NICRI/3.00 NM TO RW20		RW20	MAP	TF	FO	0.30	202.63	3.00	
RW20	MAP	740 MSL		CA			202.63		740
740 MSL		AGEPE		DF	FO	1.00			3000



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

ALTERNATE: NA ☐ STANDARD

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	539	1	200	539	1	200	539	1	200	539	1	200			
LNAV/VNAV DA	589	1	250	589	1	250	589	1	250	589	1	250			
LNAV MDA	600	1	261	600	1	261	600	1	261	600	1	261			
CIRCLING	700	1	361	840	1	501	840	1 1/2	501	900	2	561			

CHANGES - REASONS

- AIRPORT MAGVAR CHANGED FROM 14E TO 10E - MAGVAR OUT OF TOLERANCE, IAW 8260.19H PARA 2-5-3B.
- CURRENT 'Y' TAA CONFIGURATION WAS UPDATED TO A 'T' CONFIGURATION; NEW COURSES/ALTITUDES/OBSTACLES ACCORDINGLY - IAW 8260.58A SECTION 2-4.
- TERMINAL ROUTE CHANGED FROM WERMA-TO-BORME/128.55M/8.2NM/2600' TO WERIM-TO-BOPNE/112.52M/8.0NM/2600' - SEE NOTE 2. ABOVE.
- TERMINAL ROUTE CHANGED FROM ZAVIP-TO-BORME/268.96M/8.2NM/2600' TO ZAVAT-TO-BOPNE/292.95M/8.0NM/2600' - SEE NOTE 2. ABOVE.
- TERMINAL ROUTE CHANGED FROM BORME-TO-CATOE/198.71M/5.10NM/2000' TO BOPNE-TO-CATOE/202.73M/6.00NM/2100' - IAW 8260.58A PARA 3-4-1.
- TERMINAL ROUTE CHANGED FROM CATOE-TO-NICRI/198.63M/2.12NM TO CATOE-TO-NICRI/202.63M/2.44NM - IAW 8260.58A CHAPTER 3 SECTIONS 3-1 THROUGH 3-4.
- TERMINAL ROUTE CHANGED FROM NICRI-TO-RW20/198.63M/3.00NM TO NICRI-TO-RW20/202.63M/3.00NM - SEE NOTE 1. ABOVE.
- TERMINAL ROUTE CHANGED FROM RW20-TO-740 MSL (NO HEADING GIVEN) TO RW20-TO-740 MSL/202.63M - SEE NOTE 1 ABOVE.
- NEW LINES OF MINIMA (LPV AND LNAV/VNAV) AND ASSOCIATED NOTES ADDED - PERMITS LOWER MINIMA; WAAS PROJECT.
- VDP ADDED - PER 8260.3D PARA 2-6-5; VISUAL OBSTACLES NO LONGER EXIST.
- MISSED APPROACH: CLIMB-IN-HOLD NOW REQUIRED - MISSED APPROACH SURFACE DOES NOT REACH WITHIN 1000' OF HOLDING ALTITUDE, IAW 8260.3D PARA'S 2-8-9, 2-1-3, 3-2-2B, AND 17-7-3.
- ADDITIONAL FLIGHT DATA: CHART FAS OBSTACLE CHANGED FROM 360 BUSH 620709N/1634018W TO 347 BLDG 620543N/1634107W - IAW TARGETS AND MAP STUDY.
- ADDITIONAL FLIGHT DATA: ADDED CHART CIRCLING ICON - NEW CIRCLING CRITERIA APPLIED.
- ADDED CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) - IAW 8260.19H PARA 8-6-9M(1).
- "WHEN LOCAL ALTIMER SETTING NOT RECEIVED..." NOTE REMOVED - MOVED TO BACK OF 8260-9 IAW 8260.19H PARA 8-6-9F(3).
- AIRCRAFT CATEGORIES C/D ADDED - ALLOWS LARGER AIRCRAFT TO FLY PRACTICE APPROACHES.
- INCREASED CAT B CIRCLING MDA FROM 800 TO 840 - SEE 13 ABOVE.
- ADDED MAXIMUM HOLDING PATTERN IN-LIEU-OF-PT ALTITUDE OF 6000 AT BRUNI - 6000 IS THE MAXIMUM ALTITUDE FOR THAT AIRSPEED, IAW 8260.3D TABLE 17-2-1; NOW LISTED IAW 8260.19H PARA 8-6-7B(2).
- PFAF ALTITUDE INCREASED FROM 2000 TO 2100 - INTERMEDIATE SEGMENT REQUIRES 1200 AIRSPACE FLOOR/300 AIRSPACE BUFFER IAW 8260.19H PARA 4-1-3.
- STEPDOWN ALTITUDE INCREASED FROM 1300 TO 1320 - FOR DESCENT GRADIENT IAW 8260.3D PARA 2-6-2A AND 2-6-2B.
- ADDITIONAL FLIGHT DATA: FINAL 7:1 OBSTACLE CHANGED FROM 656 AAO TO 699 AAO (SAME L/L) - SPOT ALTITUDES NO LONGER ACCEPTABLE.
- ADDED 20:1 IS CLEAR - SEE NOTE 10. ABOVE; IAW 8260.19H PARA 8-6-7G(3).
- REMOVED PROFILE NOTE: VISUAL SEGMENT - OBSTACLES - SEE NOTE 10. ABOVE.
- REMOVED ALTERNATE MINIMUMS NOTE - IAW 8260.3D PARA 3-4-1.



COORDINATED WITH:

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

FLIGHT CHECKED BY

ANTHONY D VALLERA

Digitally signed by

ALLAN WILL

Nov 13, 2019

OFFICE

FICO

DATE

11/7/19

DEVELOPED BY Digitally signed by

MARK CIARLONE MARK CIARLONE

Mar 07, 2019

OFFICE

AJV-A423

DATE

11/08/2018

APPROVED BY

JULIE MORGAN

Digitally signed by

CASIMIR L TABAKA

Apr 30, 2019

OFFICE

A42

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	PAMO
RUNWAY	RW20
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W20A
LTP/FTP LATITUDE	620555.7755N
LTP/FTP LONGITUDE	1634038.4790W
LTP/FTP ELLIPSOIDAL HEIGHT	+01130
FPAP LATITUDE	620440.8730N
FPAP LONGITUDE	1634220.3750W
THRESHOLD CROSSING HEIGHT (TCH)	00030.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1680
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	4301CCBC

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	PA
LTP ORTHOMETRIC HEIGHT	+01034
FPAP ORTHOMETRIC HEIGHT	+01034

