

**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> MONTROSE RGNL	<u>AIRPORT ID</u> KMTJ	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 17	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> MONTROSE	<u>STATE</u> CO
<u>AIRPORT ELEVATION</u> 5759	<u>TDZE</u> 5708	<u>SUPERSEDED</u> RNAV (GPS) Z RWY 17	<u>ORIGINAL/AMENDMENT</u> ORIG-C	<u>DATED</u> 11/10/2016	<u>MAG VAR</u> 12E
<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>	<u>EPOCH YEAR</u> 1995

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>
NADIN		KAZJU		TF	FB	1.00	018.40	21.75	10600
PAGRE		KAZJU		TF	FB	1.00	012.34	9.89	9000
BATTZ		KAZJU		TF	FB	1.00	101.32	9.15	11500
MEYRS		GEJYU		TF	FB	1.00	318.56	21.26	12200
DIRDY		GEJYU		TF	FB	1.00	211.27	11.66	10800
KAZJU	IAF	BRUUK		TF	FB	1.00	102.16	8.48	9000
GEJYU	IAF	BRUUK		TF	FB	1.00	245.73	10.00	9000
BRUUK	IF	WIDRU		TF	FB	1.00	167.82	5.98	8100
WIDRU	FAF	ZIMVI/3.30 NM TO RW17		TF	FB	0.30	167.82	4.08	
ZIMVI/3.30 NM TO RW17		RW17	MAP	TF	FO	0.30	167.82	3.30	
RW17	MAP	6200 MSL		CA			167.82		6200
6200 MSL		PAGRE		DF	FO	1.00			11000



MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW17

MISSED APPROACH INSTRUCTIONS:

(DO NOT EXCEED 250 KIAS UNTIL PAGRE) CLIMB TO 6200 THEN CLIMBING RIGHT TURN TO 11000 DIRECT PAGRE AND HOLD, CONTINUE CLIMB IN HOLD TO 11000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF (IAF)				
2.	PROFILE STARTS AT BRUUK							
3. FAC:	167.82	FAF: WIDRU	DIST FAF TO MAP: 7.38		DIST FAF TO THLD: 7.38			
4. MIN ALT:	BRUUK 9000, WIDRU 8100, ZIMVI/3.30 NM TO RW17 6800*							
5. DIST TO THLD FROM OM:		MM:	IM:	150 HAT:	200 HAT: 0.50	GS ANT:		
6. MIN GP INCPT:	8100	GP ALT AT FAF : WIDRU 8100		OM:		MM:	IM:	
7. GP ANGLE:	3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 56.0				
8. MSA FROM:	RW17 13400							

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING NA E OF RWY 17 AND NE OF RWY 31.
 CHART NOTE: CIRCLING RWY 31 NA AT NIGHT.
 CHART NOTE: WHEN CIRCLING TO RWY 13 AT NIGHT, OPERATIONAL VGSI REQUIRED, REMAIN ON OR ABOVE VGSI GLIDEPATH UNTIL THRESHOLD.
 CHART NOTE: BARO-VNAV NA.
 *LNAV ONLY
 CHART SPEED ICON IN PLANVIEW AT KAZJU: MAX 250 KIAS.
 CHART PROFILE NOTE: PROCEDURE NA FOR ARRIVALS AT BATTZ ON V484 WESTBOUND.
 CHART PROFILE NOTE: PROCEDURE NA FOR ARRIVALS AT PAGRE ON V26 SOUTHEAST BOUND.
 CHART PROFILE NOTE: PROCEDURE NA FOR ARRIVALS AT NADIN ON V244 WESTBOUND.
 CHART PROFILE NOTE: PROCEDURE NA FOR ARRIVALS AT DIRDY OR GEJYU ON V361 NORTHEAST BOUND.
 CHART PROFILE NOTE: PROCEDURE NA FOR ARRIVALS AT MEYRS ON V26-244 EASTBOUND.
 CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV CAT C/D VISIBILITY TO 1 1/8 SM.

ADDITIONAL FLIGHT DATA:

6725 AAO 383845N/1075157W, 5940 AAO 383505N/1075254W.
 CHART CIRCLING ICON.
 CHART VDP AT 1.16 NM TO RW17*
 *LNAV ONLY
 WAAS CHANNEL #40411
 REFERENCE PATH ID: W17A
 CHART FAS OBST: 6020 TREE 383434N/1075234W.
 HOLD W, RT, 106.48 INBOUND
 LTP HAE: 1718.9 M



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

ALTERNATE: NA STANDARD - CAT D 1100-3

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	5908	1/2	200	5908	1/2	200	5908	1/2	200	5908	1/2	200				
LNAV/VNAV DA	6131	3/4	423	6131	3/4	423	6131	3/4	423	6131	3/4	423				
LNAV MDA	6120	1/2	412	6120	1/2	412	6120	3/4	412	6120	3/4	412				
CIRCLING	6280	1	521	6320	1	561	6380	1 3/4	621	6800	3	1041				

CHANGES - REASONS

- PROCEDURE NAME CHANGED FROM RNAV (GPS) Z RWY 17 TO RNAV (GPS) RWY 17 - "Y" PROCEDURE CANCELED.
- TERMINAL ROUTE NADIN TO HAQHY REPLACED BY NADIN TO KAZJU - NEW IAF.
- TERMINAL ROUTE PAGRE TO HAQHY REPLACED BY PAGRE TO KAZJU - 90 DEGREE TURN LIMITATION REQUIRED NEW IAF.
- TERMINAL ROUTE BATTZ TO KAZJU ADDED - FPT REQUEST.
- TERMINAL ROUTE MEYRS TO GEJYU ALTITUDE LOWERED FROM 14800 TO 12200 - 14500 MSL CLASS G AIRSPACE REPLACED BY STANDARD 1200 AGL AIRSPACE.
- TERMINAL ROUTE DIRDY TO GEJYU ALTITUDE LOWERED FROM 13000 TO 10800 - CURRENT SEGMENT WIDTH IS NARROWER THAN PREVIOUS CRITERIA.
- TERMINAL ROUTE HAQHY TO BRUUK REPLACED BY KAZJU TO BRUUK - NEW IAF.
- TERMINAL ROUTE GEJYU TO BRUUK ALTITUDE LOWERED FROM 9800 TO 9000 - PREVIOUS ALTITUDE WAS ARTIFICIALLY RAISED DUE TO DESCENT GRADIENT.
- TERMINAL ROUTE BRUUK TO WIDRU DISTANCE CHANGED FROM 6.11 TO 5.98 - PFAF MOVED BASED ON CURRENT FORMULA.
- TERMINAL ROUTE WIDRU TO ZIMVI DISTANCE CHANGED FROM 3.25 TO 4.08 - ZIMVI MOVED SOUTH DUE TO CURRENT OBSTACLE STUDY.
- TERMINAL ROUTE ZIMVI TO RW17 DISTANCE CHANGED FROM 4.00 TO 3.30 - ZIMVI MOVED SOUTH DUE TO CURRENT OBSTACLE STUDY.
- CA LEG ALTITUDE CHANGED FROM 6159 TO 6200 - SPECIFIED ALTITUDE REQUIRED FOR TURNING MISSED APPROACHES.
- TERMINAL ROUTES FROM 6159 MSL TO UGEYU, UGEYU TO WEGUK AND WEGUK TO PAGRE REPLACED BY 6200 MSL TO PAGRE - DIRECT MISSED APPROACH NOW APPROVED FOR LPV.
- MISSED APPROACH SPEED RESTRICTION ADDED - TO AVOID OBSTACLE PENETRATIONS.
- MISSED APPROACH ROUTING VIA UGEYU, WEGUK AND PAGRE REPLACED BY ROUTING DIRECT TO PAGRE - DIRECT MISSED NOW APPROVED FOR LPV.
- PROFILE SECTION, LINE 3, DIST FAF TO MAP AND THLD CHANGED FROM 7.25 TO 7.38 - PFAF LOCATION CHANGED.
- PROFILE SECTION, LINE 4, BRUUK CHANGED FROM 9800 TO 9000 AND ZIMVI FROM 7020 TO 6800 - LOWERED INITIAL SEGMENT ALTITUDES AND STEPDOWN FIX LOCATION CHANGED.
- PROFILE SECTION, LINE 5, ADDED DISTANCE FROM THLD TO 200 HAT - HAT VALUE LOWERED AND MOVED FROM ADDITIONAL FLIGHT DATA.
- PROFILE SECTION, LINE 7, ADDED "20:1 IS CLEAR" - CURRENT DOCUMENTATION POLICY.
- REPLACED DME/DME NOTE WITH PBN REQUIREMENTS NOTE - CURRENT DOCUMENTATION POLICY.
- ADDED CIRCLING RESTRICTION - CURRENT CIRCLING AREAS CAUSED EXCESSIVELY HIGH MDAS WITHOUT THE RESTRICTION.
- REWORDED NIGHT RESTRICTION TO RWY 31 AND 13 NOTES - CURRENT DOCUMENTATION POLICY.
- REMOVED BARO-VNAV NOTE TEMPERATURE LIMIT NOTE AND REPLACED WITH "BARO-VNAV NA" - PRECIPITOUS TERRAIN IN FINAL.
- ADDED SPEED RESTRICTION ICON AT KAZJU - SEGMENT LENGTH CONSIDERATIONS WITH PROJECTED ALTITUDE ABOVE 10,000 MSL.
- ADDED PROCEDURE NA FOR ARRIVALS NOTES AT DIRDY, BATTZ, PAGRE, NADIN AND MYERS - CURRENT 90-DEGREE TURN LIMITATION.
- ADDED INOP ALS NOTE - VISIBILITY INCREASE NOT STANDARD.
- ADDED CIRCLING ICON - CURRENT CIRCLING AREAS EVALUATED.
- VDP MOVED FROM 1.62NM TO 1.16 NM - LOWER MDA.
- ALTERNATE MINIMUMS, CAT C REMOVED, CAT D CEILING INCREASED FROM 1000 TO 1100 - REVISED CIRCLING AREAS AND MDA/HAA ADJUSTMENTS.
- LPV DA/HAT LOWERED FROM 5932/224 TO 5908/200 - MISSED PENETRATIONS AVOIDED WITH NEW DESIGN.
- LNAV/VNAV DA/VIS/HAT CHANGED FROM 6392-2-684 TO 6131-3/4-423 - MISSED PENETRATIONS AVOIDED WITH NEW DESIGN.
- LNAV MDA/HAT CHANGED FROM 6260/552 TO 6120/412 - REPOSITIONED FINAL SDF AND NEW MISSED APPROACH DESIGN.
- LNAV CATS C AND D VIS CHANGED FROM 1 AND 3 TO 3/4 - LOWER MDA/HAT.
- CIRCLING CAT A MDA/HAA INCREASED FROM 6260/501 TO 6280/521 - NEW OBSTACLE STUDY.
- CIRCLING CAT B MDA/HAA DECREASED FROM 6260/501 TO 6320/561 - NEW OBSTACLE STUDY.
- CIRCLING CAT C MDA/VIS/HAA DECREASED FROM 6640-2 3/4-881 TO 6380-1 3/4-621 - NEW OBSTACLE STUDY.
- CIRCLING CAT D MDA/HAA INCREASED FROM 6700/941 TO 6800/1041 - NEW OBSTACLE STUDY.



COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:** ZDV, AIRPORT MANAGER

Digitally signed by

FLIGHT CHECKED BY

DAVID DANNER

OFFICE

DATE

GARY BELL

Oct 01, 2019

FICO

9/26/19

DEVELOPED BY

Digitally signed by

RUSSELL ROSLEWSKI

RUSSELL ROSLEWSKI

OFFICE

DATE

Apr 22, 2019

AJV-A421

12/18/2018

APPROVED BY

Digitally signed by

MARLON ROBINSON

DAVID DANNER

OFFICE

DATE

TITLE
MANAGER

Oct 01, 2019

AJV-A420



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMTJ
RUNWAY	RW17
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	383147.3900N
LTP/FTP LONGITUDE	1075333.8700W
LTP/FTP ELLIPSOIDAL HEIGHT	+17189
FPAP LATITUDE	383008.2900N
FPAP LONGITUDE	1075333.4700W
THRESHOLD CROSSING HEIGHT (TCH)	00056.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0008
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	D7F3B040

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+17354
FPAP ORTHOMETRIC HEIGHT	+17354

