

**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> AINSWORTH RGNL	<u>AIRPORT ID</u> KANW	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 31	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> AINSWORTH	<u>STATE</u> NE
<u>AIRPORT ELEVATION</u> 2589	<u>TDZE</u> 2585	<u>SUPERSEDED</u> RNAV (GPS) RWY 31	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 06/05/2008	<u>MAG VAR</u> 6E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 10 SEPTEMBER 2020	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 218/30 CW 038/30	NOPT	ERUYA	IF/IAF	5100
2. 038/30 CW 128/30		KUTRE	IAF	5100
3. 128/30 CW 218/30		CEKRI	IAF	5100

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
KUTRE	IAF	ERUYA	NOPT	TF	FB	1.00	038.39	9.00	5100
CEKRI	IAF	ERUYA	NOPT	TF	FB	1.00	218.58	9.00	5100
ERUYA	IF/IAF	SALDE		TF	FB	1.00	308.48	9.00	4200
SALDE	FAF	MANTR/1.52 NM TO RW31		TF	FB	0.30	308.38	3.39	
MANTR/1.52 NM TO RW31		RW31	MAP	TF	FO	0.30	308.38	1.52	
RW31	MAP	2785 MSL		CA			308.38		
2785 MSL		FEDPI		DF	FO	1.00			5000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW31

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5000 DIRECT FEDPI AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

- 1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**
- 2. HOLD SE ERUYA, RT, 308.48 INBOUND, 5100 FT. IN LIEU OF PT (IAF), MAX 6000.
- 3. **FAC:** 308.39 **FAF:** SALDE **DIST FAF TO MAP:** 4.91 **DIST FAF TO THLD:** 4.91
- 4. **MIN ALT:** ERUYA 5100, SALDE 4200, MANTR/1.52 NM TO RW31 3120*
- 5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **200 HAT:** 0.47 **GS ANT:**
- 6. **MIN GP INCPT:** 4200 **GP ALT AT FAF :** SALDE 4200 **OM:** **MM:** **IM:**
- 7. **GP ANGLE:** 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 52.1
- 8. **MSA FROM:**

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20°C OR ABOVE 54°C.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
 CHART VDP AT 0.71 NM TO RW31*
 *LNAV ONLY
 WAAS CHANNEL #86507
 REFERENCE PATH ID: W31A
 CHART FAS OBST: 2597 WINDMILL 423423N/0995841W.
 CHART: 2640 TRANSMISSION_LINE 423258N/0995751W.
 HOLD NW, RT, 128.17 INBOUND
 LTP HAE: 764.8 M

MINIMUMS:

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

ALTERNATE: NA STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
	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	2785	1	200	2785	1	200	2785	1	200	2785	1	200			
LNAV/VNAV DA	2835	1	250	2835	1	250	2835	1	250	2835	1	250			
LNAV MDA	2860	1	275	2860	1	275	2860	1	275	2860	1	275			
CIRCLING	3000	1	411	3040	1	451	3040	1 1/2	451	3200	2	611			



CHANGES - REASONS

1. LNAV HAA/MDA LOWERED FROM 475/3060 FEET TO 275/2860 FEET ALL CATS. - NEW STEPDOWN FIX (MANTR) ADDED AND NEW EVALUATION COMPLETED.
2. DELETED FEEDER ROUTE FROM ISD VORTAC. - ISD VORTAC BEING DECOMMISSIONED.
3. CHANGED CHART NOTE: "DME/DME RNP-0.3 NA" TO "RNP APCH" - IAW 8260.19 PBN REQUIREMENT NOTES.
4. ADDED CIRCLING ICON. - APPLIED NEW CIRCLING CRITERIA IAW ORDER 8260.3, CHAPTER 2.
5. UPDATED RNAV - CHART NOTE: "NOTE FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C (-4F) OR ABOVE 43C (109F)" TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C OR ABOVE 54C" - NEW EVALUATION AND FAHRENHEIT NO LONGER REQUIRED.
6. CRC REMAINDER CHANGED FROM 852C8A3D TO 6CA8D00D. - VERTICAL ALERT LIMIT CHANGED FROM 50 FEET TO 35 FEET; FPAP AND LTP LOCATION CHANGED.
7. LPV HAT/DA LOWERED FROM 250/2835 FEET TO 200/2785 FEET ALL CATS. - NEW EVALUATION COMPLETED.
8. REMOVED CHART NOTE: "PROCEDURE NA FOR ARRIVAL AT ISD VOR VIA V71 NORTHWESTBOUND. - ISD VOR FEEDER ROUTE REMOVED FROM PROCEDURE; ISD VOR BEING DECOMMISSIONED.
9. LNAV/VNAV HAT/DA LOWERED FROM 288/2873 TO 250/2835 - NEW EVALUATION COMPLETED.
10. LNAV VISIBILITY LOWERED: CAT C FROM 1 1/4 SM TO 1 SM; CAT D FROM 1 1/2 SM TO 1 SM. - NEW VISIBILITY CHECK COMPLETED; HAT LOWERED.
11. CIRCLING HAA/MDA CHANGED: CAT A FROM 417/3060 FEET TO 411/3000 FEET; CAT B FROM 471/3060 FEET TO 451/3040 FEET; CAT C FROM 471/3060 FEET TO 451/3040 FEET; CAT D FROM 471/3060 FEET TO 591/3180 FEET. - NEW EVALUATION AND NEW CIRCLING CRITERIA APPLIED.
12. CHANGED FAF TO MAP/THLD DISTANCE FROM 4.85 TO 4.91. - ALIGNED VDA TO VGS1.
13. CHANGED INTERMEDIATE COURSE/LENGTH FROM 308.45/6.12NM TO 308.48/9.00NM. - MOVED FOR FINAL COURSE ALIGNMENT.
14. CHANGED INITIAL COURSE/LENGTH FROM 038.40/5.00NM TO 38.39/9.00NM. MOVED FOR INITIAL COURSE ALIGNMENT.
15. CHANGED INITIAL COURSE/LENGTH FROM 218.50/5.00NM TO 218.58/9.00NM. - MOVED FOR INITIAL COURSE ALIGNMENT.
16. DELETED FEEDER FROM MARSS TO KUTRE. - TAA DEVELOPED FOR PROCEDURE PER FPT REQUEST.
17. DELETED IAF ROUTE FROM GIYED TO ERUYA. - TAA DEVELOPED FOR PROCEDURE PER FPT REQUEST.
18. MSA REPLACED WITH TAA ARRIVAL. - FPT REQUEST.
19. ADDED NEW STEPDOWN FIX MANTR. - ALLOWS FOR LOWEST POSSIBLE MINIMUMS FOR LNAV FINAL.
20. LINE 7: ADDED "20:1 IS CLEAR" - NO 20:1 PENETRATIONS NOTED IN STRAIGHT-IN VISUAL AREA.
21. VDP DISTANCE CHANGED FROM 1.14 NM TO 0.71 NM. - NEW EVALUATION.
22. UPDATED FAS OBSTACLE FROM "2809 AA0 423103N/0995546W" TO "2597 WINDMILL 423423N/0995841W". - NEW EVALUATION.
23. REMOVED BACKUP ALTIMETER AND ASSOCIATED NOTES. - MOVED TO -9 AS A CONTINGENCY.
24. INITIAL FIX ERUYA AND HOLD IN LIEU ALTITUDE CHANGED FROM 5000 FT TO 5100 FT. - NEW EVALUATION AND NEW TAA CONSTRUCTED.
25. UPDATED LINE 2 FROM "HOLD SE ERUYA, RT, 308.45 INBOUND, 5000 FT. IN LIEU OF PT (IAF)" TO "HOLD SE ERUYA, RT, 308.48 INBOUND, 5100 FT. IN LIEU OF PT (IAF), MAX 6000" - ERUYA MOVED FOR PROCEDURE DEVELOPMENT AND NEW EVALUATION COMPLETED.

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA OTHER: ZDV, ARPT MGR

FLIGHT CHECKED BY

GABRIEL J PARKISON

Digitally signed by
DONALD H LANIER

OFFICE

FICO

DATE

6/10/2020

DEVELOPED BY

DONALD H. LANIER (MATTHEW FULKS)

Jun 12, 2020

Digitally signed by

DONALD H LANIER

OFFICE

AJV-A431

DATE

10/08/2019

APPROVED BY

GEORGE DAVIS

Jun 12, 2020

Digitally signed by
DONALD H LANIER

Jun 12, 2020

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	KANW
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	423437.1825N
LTP/FTP LONGITUDE	0995852.5910W
LTP/FTP ELLIPSOIDAL HEIGHT	+07648
FPAP LATITUDE	423539.4560N
FPAP LONGITUDE	1000018.8790W
THRESHOLD CROSSING HEIGHT (TCH)	00052.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1072
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	6CA8D00D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+07872
FPAP ORTHOMETRIC HEIGHT	+07872

