

**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> KESC	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 28	<u>ORIGINAL/AMENDMENT</u> 1C	<u>CITY</u> ESCANABA	<u>STATE</u> MI		
<u>AIRPORT ELEVATION</u> 609	<u>TDZE</u> 596	<u>SUPERSEDED</u> RNAV (GPS) RWY 27	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 05/28/2015	<u>MAG VAR</u> 5W	<u>EPOCH YEAR</u> 2025
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 3 NOVEMBER 2022	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 186/30 CW 006/30	NOPT	186/10 CW 006/10		2600
2. 186/10 CW 006/10		ZUMAB	IF/IAF	2500
3. 006/30 CW 096/30		JAGOG	IAF	2500
4. 096/30 CW 186/30		096/10 CW 186/10		3100
5. 096/10 CW 186/10		KESIW	IAF	2500

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
JAGOG	IAF	ZUMAB	NOPT	TF	FB	1.00	006.09	10.00	2500
KESIW	IAF	ZUMAB	NOPT	TF	FB	1.00	186.09	10.00	2500
ZUMAB	IF/IAF	JUVNU		TF	FB	1.00	276.09	6.04	2200
JUVNU	FAF	TULTE/2.50 NM TO RW28		TF	FB	0.30	275.98	2.38	
TULTE/2.50 NM TO RW28		RW28	MAP	TF	FO	0.30	275.98	2.50	
RW28	MAP	846 MSL		CA			275.98		
846 MSL		YEBUG		DF	FO	1.00			2500



MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW28

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2500 DIRECT YEBUG AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. HOLD E ZUMAB, RT, 276.09 INBOUND, 2500 FT. IN LIEU OF PT (IAF), MAX 6000.					
3. FAC:	275.98	FAF: JUVNU	DIST FAF TO MAP: 4.88		DIST FAF TO THLD: 4.88
4. MIN ALT: ZUMAB 2500, JUVNU 2200, TULTE/2.50 NM TO RW28 1440					
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	250 HAT: 0.63	GS ANT:
6. MIN GP INCPT: 2200	GP ALT AT PFAF : JUVNU 2200		OM:	MM:	IM:
7. GP ANGLE: 3.00	34:1: IS NOT CLEAR	20:1: IS CLEAR	TCH: 53.0		
8. MSA FROM:					

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 28 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: CAUTION: MAGNETIC DISTURBANCES OF AS MUCH AS 14 DEGREES EXIST AT GROUND LEVEL AT ESCANABA.

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 095.69 INBOUND.
CHART FAS OBST: 730 RIG (26-001751) 454309N/0870350W.
CHART VDP AT 1.23 NM TO RW28.
WAAS CHANNEL # 63128
REFERENCE PATH ID: W28A
CHART CIRCLING ICON.
LTP HAE: 144.9 M



MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 900-2 3/4, NA WHEN LOCAL WEATHER NOT AVAILABLE.

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
LPV DA	846	1	250	846	1	250	846	1	250	846	1	250			
LNAV/VNAV DA	1076	1 5/8	480	1076	1 5/8	480	1076	1 5/8	480	1076	1 5/8	480			
LNAV MDA	1040	1	444	1040	1	444	1040	1 3/8	444	1040	1 3/8	444			
CIRCLING	1060	1	451	1080	1	471	1280	2	671	1480	2 3/4	871			

CHANGES - REASONS

1. CHANGES FROM P-NOTAM 3/4031 AMDT 1A AND P-NOTAM 4/0486 AMDT 1B INCORPORATED INTO FORM - REQUIRED IAW 8260.19I PARA 8-3-4C(3).
2. MAG VAR/EPOCH YEAR FOR KESC CHANGED FROM 3W/1985 TO 5W/2025 - FPT REQUEST.
3. ALL COURSES INCREASED +2 - MAGVAR UPDATED FROM 3W 1985 TO 5W 2025.
4. PROCEDURE NAME CHANGED FROM RNAV (GPS) RWY 27 TO RNAV (GPS) RWY 28 - MAG VAR CHANGE.
5. ADDED 20:1 IS CLEAR TO PROFILE LINE 7 - 20:1 SURFACE IS CLEAR.
6. CHANGED NOTE BARO-VNAV NA WHEN USING MARQUETTE ALTIMETER TO BARO-VNAV AND VDP NA WHEN USING MARQUETTE ALTIMETER SETTING AND MOVED FROM THE 8260-3 TO THE 8260-9 - VDP NOW PUBLISHABLE, NOTE AND PLACEMENT IAW 8260.19I.
7. REMOVED ASTERISK FROM LINE 4 - NO LONGER REQUIRED IAW 8260.19I
8. REMOVED NOTE WHEN VGSI INOP, CIRCLING RWY 18 NA AT NIGHT. - RWY 18 20:1 PENETRATIONS REMOVED.
9. CHANGED NOTE FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F) TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C. - UPDATED NOTE IAW 8260.19I.
10. REMOVED NOTE WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 27 PROCEDURE NA AT NIGHT - 20:1 IS CLEAR.
11. CHANGED NOTE FROM HELICOPTER VISIBILITY REDUCTION BELOW 1SM NOT AUTHORIZED TO RWY 28 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. - 20:1 IS CLEAR, 34:1 IS NOT CLEAR, UPDATED NOTE IAW 8260.19I.
12. UPDATED BACKUP ALTIMETER NOTE FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MARQUETTE ALTIMETER SETTING AND INCREASE ALL DA 178 FT AND ALL MDA 180 FT AND INCREASE LPV ALL CATS VISIBILITY 3/8 MILE, LNAV/VNAV ALL CATS VISIBILITY 1/8 MILE, LNAV CAT C AND D VISIBILITY 3/8 MILE, AND CIRCLING CAT C VISIBILITY 1/2 MILE AND CAT D VISIBILITY 1/4 MILE." TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MARQUETTE ALTIMETER SETTING AND INCREASE LPV DA TO 1024 FEET AND ALL VISIBILITIES 1/2 SM. INCREASE LNAV/VNAV DA TO 1254 FEET AND ALL VISIBILITIES 1/2 SM; INCREASE ALL MDAS 180 FEET AND VISIBILITY CAT C AND D 1/2 SM" AND MOVED IT FROM THE 8260-3 TO THE BACK OF 8260-9. - 8260.19I.
13. ADDED ADDITIONAL FLIGHT DATA CHART VDP AT 1.23 NM TO RW28. - 20:1 VISUAL SURFACE IS CLEAR, VDP PUBLISHABLE.
14. CRC REMAINDER CHANGED FROM EF9B91BO TO A856962A. - REFERENCE PATH IDENTIFIER CHANGED FROM W27A TO W28A, RUNWAY CHANGED FROM RW27 TO RW28 AND FPAP COORDINATES CHANGED.
15. FPAP LOCATION CHANGED FROM 454315.3400N/0870718.5500W TO 454315.3415N/0870718.5585W - UPDATED SURVEY.
16. TERMINAL ROUTES COURSE CHANGED FROM TULTE TO RW27 273.94 TO RW28 275.98 - INCORRECT FINAL COURSE DOCUMENTED AND MAG VAR CHANGE.



AIRPORT ID
KESC

PROCEDURE NAME
RNAV (GPS) RWY 28

ORIGINAL/AMENDMENT
1C

CITY
ESCANABA

STATE
MI

COORDINATED WITH:

A4A ☒

ALPA ☒

AOPA ☒

APA ☐

HAI ☐

NBAA ☒

OTHER:

FLIGHT CHECKED BY

STANLEY PHILLIPS

DEVELOPED BY

TYLER MITCHELL

Digitally signed by
TYLER D MITCHELL
Jul 08, 2022

APPROVED BY

CASIMIR TABAKA

Digitally signed by
CASIMIR L TABAKA
Jul 20, 2022

Digitally signed by

DAVID TEFFETELLER

Aug 22, 2022

OFFICE

FPO

OFFICE

AJV-A432

OFFICE

AJV-A430

DATE

08/18/2022

DATE

05/10/2022

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KESC
RUNWAY	RW28
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W28A
LTP/FTP LATITUDE	454313.9620N
LTP/FTP LONGITUDE	0870511.3995W
LTP/FTP ELLIPSOIDAL HEIGHT	+01449
FPAP LATITUDE	454315.3415N
FPAP LONGITUDE	0870718.5585W
THRESHOLD CROSSING HEIGHT (TCH)	00053.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0768
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	A856962A

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01808
FPAP ORTHOMETRIC HEIGHT	+01808

