

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 10	<u>ORIGINAL/AMENDMENT</u> ORIG-C	<u>CITY</u> ESCANABA	<u>STATE</u> MI		
<u>AIRPORT ELEVATION</u> 609	<u>TDZE</u> 609	<u>SUPERSEDED</u> RNAV (GPS) RWY 9	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>DATED</u> 08/21/2014	<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. 006/30 CW 186/30	NOPT	006/9 CW 186/9		3100
2. 006/9 CW 186/9		YEBUG	IF/IAF	2500
3. 186/30 CW 276/30		186/7 CW 276/7		3100
4. 186/7 CW 276/7		NAYGI	IAF	2500
5. 276/30 CW 006/30		VUYUK	IAF	2500

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
NAYGI	IAF	YEBUG	NOPT	TF	FB	1.00	185.69	5.00	2500
VUYUK	IAF	YEBUG	NOPT	TF	FB	1.00	005.69	5.00	2500
YEBUG	IF/IAF	JAGED		TF	FB	1.00	095.69	6.10	2200
JAGED	FAF	UYEPI/2.20 NM TO RW10		TF	FB	0.30	095.80	2.56	
UYEPI/2.20 NM TO RW10		RW10	MAP	TF	FO	0.30	095.80	2.20	
RW10	MAP	809 MSL		CA			095.80		
809 MSL		ZUMAB		DF	FO	1.00			2500

QUALITY
8
CHECKED

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW10

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2500 DIRECT ZUMAB AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. HOLD W YEBUG, RT, 095.69 INBOUND, 2500 FT. IN LIEU OF PT (IAF), MAX 6000.					
3. FAC:	095.80	FAF: JAGED	DIST FAF TO MAP: 4.76		DIST FAF TO THLD: 4.76
4. MIN ALT: YEBUG 2500, JAGED 2200, UYEPI/2.20 NM TO RW10 1360					
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	200 HAT: 0.45	GS ANT:
6. MIN GP INCPT: 2200	GP ALT AT PFAF : JAGED		OM:	MM:	IM:
7. GP ANGLE: 3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 56.1		
8. MSA FROM:					

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV VISIBILITY TO 1 SM.
CHART PLANVIEW NOTE: CAUTION: MAGNETIC DISTURBANCES OF AS MUCH AS 14 DEGREES EXIST AT GROUND LEVEL AT ESCANABA.

ADDITIONAL FLIGHT DATA:

HOLD E, RT, 276.09 INBOUND.
CHART FAS OBST: 749 TREE 454256N/0870848W.
CHART VDP AT 1.03 NM TO RW10.
WAAS CHANNEL # 70511
REFERENCE PATH ID: W10A
CHART CIRCLING ICON.
LTP HAE: 149.8 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.

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	809	1/2	200	809	1/2	200	809	1/2	200	809	1/2	200			
LNAV/VNAV DA	967	5/8	358	967	5/8	358	967	5/8	358	967	5/8	358			
LNAV MDA	1000	1/2	391	1000	1/2	391	1000	5/8	391	1000	5/8	391			
CIRCLING	1060	1	451	1080	1	471	1280	2	671	1480	2 3/4	871			

CHANGES - REASONS

1. CHANGES FROM P-NOTAM 4/3737 AMDT 1A AND P-NOTAM 3/4011 AMDT 1B INCORPORATED INTO FORM - REQUIRED IAW 8260.19I PARA 8-3-4C(3).
2. ALL COURSES INCREASED +2 - AIRPORT MAGVAR UPDATED FROM 3W 1985 TO 5W 2025.
3. PROCEDURE NAME CHANGED FROM RNAV (GPS) RWY 9 TO RNAV (GPS) RWY 10. - AIRPORT MAGVAR UPDATED FROM 1985/3W TO 2025/5W, FPT REQUEST.
4. REMOVED THE ASTERISK FROM PROFILE LINE 4 - NO LONGER REQUIRED IAW 8260.19I
5. ADDED 20:1 IS CLEAR ON PROFILE LINE 7. - 20:1 IS CLEAR.
6. COMBINED NOTE BARO-VNAV NA WHEN USING MARQUETTE ALTIMETER SETTING AND VDP NA WHEN USING MARQUETTE ALTIMETER SETTING TO BARO-VNAV AND VDP NA WHEN USING MARQUETTE ALTIMETER SETTING AND MOVED FROM THE 8260-3 TO THE 8260-9. - 8260.19I
7. 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.
8. REMOVED NOTE *LNAV ONLY. - NO LONGER REQUIRED IAW 8260.19I
9. CHANGED NOTE FROM FOR INOPERATIVE MALSR, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 MILE TO FOR INOPERATIVE ALS, INCREASE LNAV/VNAV VISIBILITY TO 1 SM. - UPDATED NOTE IAW 8260.19I
10. CHANGED NOTE FROM "FOR INOPERATIVE MALSR, WHEN USING MARQUETTE ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY TO 1 MILE, LNAV CAT C AND D VISIBILITY TO 1 5/8 MILE" TO "FOR INOPERATIVE ALS, WHEN USING MARQUETTE ALTIMETER SETTING, INCREASE LPV VISIBILITY TO 1 SM, AND LNAV CAT C AND D VISIBILITY TO 1 5/8 SM" AND MOVED TO THE BACK OF THE 8260-9 - UPDATED NOTE IAW 8260.19I, AND MOVED TO THE 8260-9 WITH RELATED BACKUP ALTIMETER NOTES.
11. REMOVED NOTE CIRCLING TO RWY 18 NA AT NIGHT. - 20:1 IS NOW CLEAR.
12. CRC REMAINDER CHANGED FROM 6D56E764 TO 60BD079D - REFERENCE PATH IDENTIFIER CHANGED FROM W09A TO W10A, AND RUNWAY NUMBER CHANGED FROM RW09 TO RW10.
13. REMOVED NOTE "DME/DME RNP-0.3 NA" AND ADDED PBN REQUIREMENTS NOTE "RNP APCH-GPS" - 8260.19I.
14. UPDATED BACK-UP 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 1/8 MILE, LNAV/VNAV ALL CATS VISIBILITY 3/8 MILE, LNAV CAT C AND D VISIBILITY 5/8 MILE, AND CIRCLING CAT C VISIBILITY 1/2 MILE, CAT D VISIBILITY 1/4 MILE." TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MARQUETTE ALTIMETER SETTING AND INCREASE LPV DA TO 987 FEET AND ALL VISIBILITIES 1/8 SM, LNAV/VNAV DA TO 1145 FEET AND ALL VISIBILITIES 3/8 SM; NCREASE ALL MDAS 180 FEET AND VISIBILITY CATS C AND D 5/8 SM." AND MOVED THEM FROM 8260-3 TO THE 8260-9. - 8260.19I.
15. VDP CHANGED FROM 1.05 TO RWY 09 TO 1.03 TO RWY 10 AND REMOVED ASTERISK ASSOCIATED WITH VDP FOR LOC ONLY - VDP TARGETS CALCULATED DISTANCE, RUNWAY NUMBER CHANGED, ASTERISK REMOVED IAW 8260.19I.
16. FAS DATA CHANGED LENGTH OFFSET FROM 0000 TO 0768. - UPDATED VALUE PER TARGETS SOFTWARE.
17. REMOVED ADDITIONAL FLIGHT DATA CHART FAS OBST 697 TREE 454306N/0870748W - 8260.19I 8-6-10 (C).



AIRPORT ID
KESC

PROCEDURE NAME
RNAV (GPS) RWY 10

ORIGINAL/AMENDMENT
ORIG-C

CITY
ESCANABA

STATE
MI

COORDINATED WITH:

A4A ☒

ALPA ☒

AOPA ☒

APA ☐

HAI ☐

NBAA ☒

OTHER: ZMP, AMGR

FLIGHT CHECKED BY

STANLEY PHILLIPS

Digitally signed by

DAVID TEFFETELLER

Aug 22, 2022

OFFICE

FPO

DATE

08/18/2022

DEVELOPED BY

TYLER MITCHELL

Digitally signed by

TYLER D MITCHELL

Jul 08, 2022

OFFICE

AJV-A432

DATE

05/10/2022

APPROVED BY

CASIMIR TABAKA

Digitally signed by

CASIMIR L TABAKA

Jul 20, 2022

OFFICE

AJV-A430

DATE

TITLE
MANAGER

QUALITY
8
CHECKED

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KESC
RUNWAY	RW10
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W10A
LTP/FTP LATITUDE	454314.9595N
LTP/FTP LONGITUDE	0870642.9680W
LTP/FTP ELLIPSOIDAL HEIGHT	+01498
FPAP LATITUDE	454313.5690N
FPAP LONGITUDE	0870435.8095W
THRESHOLD CROSSING HEIGHT (TCH)	00056.1
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)	35.0
CRC REMAINDER	60BD079D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01857
FPAP ORTHOMETRIC HEIGHT	+01857

