

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SUPERSEDED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>	<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



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



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

<u>AIRPORT ID</u> KESC	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 10	<u>AMDT NO.</u> ORIG-C	<u>CITY</u> ESCANABA	<u>STATE</u> MI	<u>AIRPORT ELEVATION</u> 609	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM
006/30 CW 186/30

TO
006/9 CW 186/9

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.TOWER (26-000229)	454914.00N/0880233.39W		1840	20	3	1A	1000					2900
2.TERRAIN	455015.00N/0875821.00W		1562 (1600)								AS1500	3100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

STRAIGHT-IN AREA

FROM
006/9 CW 186/9

TO
YEBUG

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
3.TOWER (26-003337)	453953.52N/0873031.84W		1269	250	50	4D	1000					2300
4.TERRAIN	455118.00N/0873121.00W		1024 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



LEFT BASE AREA

FROM
186/30 CW 276/30

TO
186/7 CW 276/7

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.TOWER (26-000434)	460805.00N/0865656.00W		2072	250	50	4D	1000					3100
6.TERRAIN	461630.00N/0871642.00W		1329 (1300)								AS1500	2800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

LEFT BASE AREA

FROM
186/7 CW 276/7

TO
NAYGI

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.TOWER (26-000735)	455545.00N/0871611.00W		1263	250	50	4D	1000					2300
8.TERRAIN	455830.00N/0872142.00W		1011 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



RIGHT BASE AREA

FROM
276/30 CW 006/30

TO
VUYUK

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9.TOWER (55-000603)	451419.00N/0870527.00W		1279	250	50	4D	1000				AT221	2500
10.TERRAIN	454245.00N/0872045.00W		870 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM
NAYGI

TO
YEBUG

RNP	DISTANCE 5.00	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
11.AAO	454748.00N/0872624.00W		1204	164	98	4E	1000					2300
12.TERRAIN	454748.00N/0872624.00W		1004 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INITIAL

FROM
VUYUK

TO
YEBUG

RNP	DISTANCE 5.00	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
13.TOWER (26-002345)	453835.88N/0872237.45W		1249	500	50	5D	1000				AT251	2500
14.TERRAIN	454006.00N/0872700.00W		906 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM
YEBUG (IF/IAF)

TO
JAGED

RNP	DISTANCE 6.10	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
15.AAO	454642.00N/0872327.00W		1159	164	98	4E	500				AC98 DG443	2200
16.TERRAIN	454709.00N/0872206.00W		876 (900)								AS1000	1900

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LPV

FROM
JAGED

TO
RW10

RNP	DISTANCE 4.76	PAT	MAP DA	HAT 200	HMAS							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				809

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM
JAGED

TO
RW10

RNP	DISTANCE 4.76	PAT	MAP DA	HAT 358	HMAS							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
17.TREE (KESC0008)	454305.53N/0870747.81W		697	20	3	1A		23.4:1				967

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



FINAL: LNAV

FROM

JAGED

TO

UYEPI/2.20 NM TO RW10

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
	2.56											
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
18.TREE	454310.00N/0871021.00W		907	50	20	2C	250				RA178 DG25	1360

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

FINAL: LNAV STEPDOWN

FROM

UYEPI/2.20 NM TO RW10

TO

RW10

<u>RNP</u>	<u>DISTANCE</u> 2.20	<u>PAT</u>	<u>MAP</u> RW10	<u>HAT</u> 391			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
19.TREE	454256.33N/0870847.57W		749	50	20	2C	250					1000

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



HOLD-IN-LIEU OF PT

FROM
YEBUG

TO
P-5

RNP	DISTANCE	PAT P-5	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
3.TOWER (26-003337)	453953.52N/0873031.84W		1269	250	50	4D	1000					2300
20.TERRAIN	454712.00N/0872803.00W		998 (1000)								AS1500	2500

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

MISSED APPROACH : LPV

FROM
DA

TO
ZUMAB

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 640					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
								ASC				2500
21.BLDG	454444.00N/0870315.00W		879	250	50	4D	1000					1900
22.TERRAIN	454445.00N/0870824.00W		722 (700)								AS1500	2200

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



MISSED APPROACH : LNAV/VNAV

FROM
DA

TO
ZUMAB

RNP	DISTANCE	PAT	MAP	HAT			HMAS 698					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2500
21.BLDG	454444.00N/0870315.00W		879	250	50	4D	1000					1900
22.TERRAIN	454445.00N/0870824.00W		722 (700)								AS1500	2200

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

MISSED APPROACH : LNAV

FROM
RW10

TO
ZUMAB

RNP	DISTANCE	PAT	MAP	HAT			HMAS 750					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2500
21.BLDG	454444.00N/0870315.00W		879	250	50	4D	1000					1900
22.TERRAIN	454445.00N/0870824.00W		722 (700)								AS1500	2200

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



AIRPORT ID KESC	PROCEDURE NAME RNAV (GPS) RWY 10	AMDT NO. ORIG-C	CITY ESCANABA	STATE MI	AIRPORT ELEVATION 609	FACILITY RNAV
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CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TANK (26-001301)	454449.27N/0870439.87W	1.30	451	759	20	3	1A	300			1060
CATEGORY B											
BUILDING (26-020760)	454443.47N/0870316.06W	1.83	471	778	20	3	1A	300			1080
CATEGORY C											
TOWER (26-000196)	454548.00N/0870542.00W	2.87	671	915	500	50	5D	300		AC50	1280
CATEGORY D											
TOWER (26-001628)	454647.05N/0870825.76W	3.75	871	1168	20	3	1A	300			1480

CIRCLING REMARKS:

CENTER

RADIUS

REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

QUALITY
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PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ZMP ARTCC, GRB FSS

<u>WX SERVICE</u> AWOS-3PT	<u>LOCATION</u> KESC	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KESC	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> AWOS-3	<u>LOCATION</u> KSAW	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KSAW	<u>DISTANCE</u> 39.91	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 178

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KESC 609, KSAW 1221
RA = 177.5.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW01 - MIRL (PCL), REIL (PCL), PAPI-4L (PCL)		NPI-G	
RW19 - MIRL (PCL), PAPI-4L (PCL)		NPI-G	
RW10 - MALSR (PCL), HIRL (PCL)		PIR-F	
RW28 - HIRL (PCL), REIL (PCL), PAPI-4R (PCL)		PIR-F	

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 609.1	<u>TCH</u> 56.1	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u> -16C	<u>CRITICAL HIGH</u> +54C	<u>ACT</u> -16C	<u>APT ISA</u> +13.79C
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CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 976 HIGH TEMP 1270.



"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

<u>PENETRATIONS REMARKS:</u>

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

CONTINGENCY NOTE: 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; INCREASE ALL MDAS 180 FEET AND VISIBILITY CATS C AND D 5/8 SM. BARO-VNAV AND VDP NA WHEN USING MARQUETTE ALTIMETER SETTING.

CHART NOTE: 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.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT ID</u> KESC	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 10	<u>AMDT NO.</u> ORIG-C	<u>CITY</u> ESCANABA	<u>STATE</u> MI	<u>AIRPORT ELEVATION</u> 609	<u>FACILITY</u> RNAV
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PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.56
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.81
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	090.80
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	800
DISTANCE FROM	FAF	TO 1500FT POINT	5.90
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	090.69
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	900

THRESHOLD
COORDINATES
(IF STR-IN)

454314.96N/0870642.97W

ARP COORDINATES

454321.63N/0870537.38W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 10 DISTANCE 0.77 NM

FAF
COORDINATES

454319.14N/0871330.29W

FIX NAME
COORDINATES

IF/IAF YEBUG: 454323.91N/0872212.95W, IAF NAYGI: 454823.82N/0872207.79W, IAF VUYUK: 453824.00N/0872218.10W

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.

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PART E: PREPARED BY

<u>NAME</u> TYLER MITCHELL	<u>OFFICE</u> AJV-A432	<u>DATE</u> 05/10/2022	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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