

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) - STANDARD
INSTRUMENT APPROACH PROCEDURE
FAR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

TERMINAL ROUTES				MISSED APPROACH
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LNAV: RW23 CLIMB TO 3100 DIRECT YOGUS AND VIA 255.94 TRACK TO BIRRS AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 137.00 INBOUND. CHART FAS OBST: 909 TREE 432912N/0832509W CHART 1173 TOWER 433035N/0832320W. KAYET TO RW23: 3.04/40
MBS VOR/DME	JULIS (FB)	084.80 / 33.79	3000	
WINTO	TISPE (FB)	022.52 / 9.05	2400	
JULIS (IAF)	RAYOL (FB)	147.87 / 5.00	2300	
TISPE (IAF)	RAYOL (FB)	327.97 / 5.00	2300	
RAYOL (IF)	KAYET (FB)	237.92 / 6.01	2300	

- PT NA SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- PROFILE STARTS AT RAYOL
- FAC: 237.85 FAF: KAYET DIST FAF TO MAP: 4.83 THLD: 4.83
- MIN. ALT: RAYOL 2300, KAYET 2300, LIYIG/2.60 NM TO RW23 1560
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
- MIN GS INCPT: GS ALT AT: OM: MM: IM:
- GS ANGLE: TCH: 34:1 IS NOT CLEAR
- MSA FROM: RW23 3100

MAG VAR: 6W

EPOCH YEAR: 1985

MINIMUMS

TAKEOFF:		STANDARD	X	SEE FAA FORM 8260-15A FOR THIS AIRPORT	ALTERNATE: N A		STANDARD @								
CATEGORY ==>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LNAV MDA	1160	1	459	1160	1	459		NA			NA				
CIRCLING	1220	1	519	1220	1	519		NA			NA				

NOTES:
 CHART NOTE: DME/DME RNP-0.3 NA. @ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
 CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SAGINAW/MBS INTL ALTIMETER SETTING AND SEE 8260-10

CITY AND STATE CARO, MI	ELEVATION: 701 TDZE: 701 AIRPORT NAME: TUSCOLA AREA	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 23, ORIG 20 NOV 2008	SUP:
				AMDT: NONE
				DATED

QUALITY
2
CHECKED

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NOTES CONT.

INCREASE ALL MDA 80 FEET.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MBS VORTAC VIA V320 NORTHWEST BOUND.

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FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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ARINC PACKET - 424-18[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KCFSK5FR23	AMBS	010MBS	K5D 0V	IF					18000		B JS	
SUSAP	KCFSK5FR23	AMBS	020JULISK5EA0E	A 020TF			08480338	+ 03000				B JS	
SUSAP	KCFSK5FR23	AMBS	030RAYOLK5EA0EE	010TF			14790050	+ 02300				B JS	
SUSAP	KCFSK5FR23	AWINTO	010WINTOK5EA0E	IF						18000		B JS	
SUSAP	KCFSK5FR23	AWINTO	020TISPEK5EA0E	A 020TF			02250091	+ 02400				B JS	
SUSAP	KCFSK5FR23	AWINTO	030RAYOLK5EA0EE	010TF			32800050	+ 02300				B JS	
SUSAP	KCFSK5FR23	R	010RAYOLK5EA0E	I IF				+ 02300		18000		B JS	
SUSAP	KCFSK5FR23	R	020KAYETK5EA1E	F 051TF			23790060	+ 02300			RW23	K5PGB JS	
SUSAP	KCFSK5FR23	R	020KAYETK5EA2WN		N	ALNAV						JS	
SUSAP	KCFSK5FR23	R	021LIYIGK5EA0E	S 031TF			23790022	+ 01560		-304		B JS	
SUSAP	KCFSK5FR23	R	030RW23	K5PGOGY M 031TF			23790026	00741		-304		B JS	
SUSAP	KCFSK5FR23	R	040YOGUSK5EA0E	M 010DF								B JS	
SUSAP	KCFSK5FR23	R	050BIRRSK5EA0EY	010TF			2559	+ 03100				B JS	
SUSAP	KCFSK5FR23	R	060BIRRSK5EA0EE	HR020HM			13700040	+ 03100				B JS	

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[illegible]

SUSAP KCFSK5GRW23 0043002378 N43274085W083262766-0300 +0179400701000040075R

[illegible]

SUSAP KCFSK5SRW23 K5PG 0 18018003125

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ARINC FLIGHT INSPECTION SUMMARY - VERSION 424-18

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE
	MBS	MBS	010		IF		FB				
	MBS	JULIS	020	IAF	TF		FB	2.0	084.8(079T)	033.8	03000
	MBS	RAYOL	030		TF		FB	1.0	147.9(142T)	005.0	02300
	WINTO	WINTO	010		IF		FB				
	WINTO	TISPE	020	IAF	TF		FB	2.0	022.5(017T)	009.1	02400
	WINTO	RAYOL	030		TF		FB	1.0	328.0(322T)	005.0	02300
		RAYOL	010	FACF	IF		FB				02300
		KAYET	020	FAF	TF		FB	0.5	237.9(232T)	006.0	02300
		LIYIG	021	SDF	TF		FB	0.3	237.9(232T)	002.2	01560
		RW23	030	MAP	TF		FO	0.3	237.9(232T)	002.6	00741

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE
	YOGUS	040		DF		FB	1.0			
	BIRRS	050		TF		FO	1.0	255.9(250T)		03100
	BIRRS	060		HM	R	FO	2.0	137.0(131T)	004.0	03100

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	MBS	N433153.94	W0840438.35	N4331.899	W08404.639
	BIRRS	N432026.48	W0834637.11	N4320.441	W08346.619
	JULIS	N433818.73	W0831859.43	N4338.312	W08318.991
	KAYET	N433040.03	W0832114.72	N4330.667	W08321.245
	LIYIG	N432917.32	W0832339.28	N4329.289	W08323.655
	RAYOL	N433422.63	W0831444.63	N4334.377	W08314.744
	TISPE	N433026.37	W0831030.38	N4330.440	W08310.506
	WINTO	N432145.96	W0831402.48	N4321.766	W08314.041
	YOGUS	N432413.47	W0833228.67	N4324.225	W08332.478
	RW23	N432740.85	W0832627.66	N4327.681	W08326.461

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW23	00701	40

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