

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR 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		LPV: DA LNAV/VNAV: DA LNAV: RW23 CLIMB TO 2300 DIRECT WERDO AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, RT, 052.49 INBOUND. FAS OBST: 809 AAO 433450N/0840049W. DISTANCE TO THLD FROM 200 HAT: 0.49 NM. CHART VDP AT 1.12 NM TO RW23* *LNAV ONLY. WAAS CHANNEL # 49010 REFERENCE PATH ID: W23A CHART CIRCLING ICON. LTP HAE: 163.6 M									
FOROX (IF/IAF)		JURBO (TF) (FB) (RNP 1.00)			232.75 / 6.00				2300											
JURBO (FAF)		RW23 (MAP) (TF) (FO) (RNP 0.30)			232.68 / 5.01															
RW23 (MAP)		861 MSL (CA)			232.68				2300											
861 MSL		WERDO (DF) (FO) (RNP 1.00)																		
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NE FOROX, RT, 232.75 INBOUND, 2300 FT. IN LIEU OF PT (IAF) 3. FAC: 232.68 FAF: JURBO DIST FAF TO MAP: 5.01 THLD: 5.01 4. MIN. ALT: FOROX 2300, JURBO 2300 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2300 GS ALT AT: JURBO 2300 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 54.3 20:1 IS CLEAR 34:1 IS CLEAR 8. MSA FROM: _____																	MAG VAR: 7W		EPOCH YEAR: 2020	
MINIMUMS																				
TAKEOFF: 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					
LPV DA#	861	2400	200	861	2400	200	861	2400	200	861	2400	200								
LNAV/VNAV DA	940	2400	279	940	2400	279	940	2400	279	940	2400	279								
LNAV MDA	1060	2400	399	1060	2400	399	1060	3500	399	1060	3500	399								
CIRCLING	1080	1	412	1120	1	452	1240	1 1/2	572	1240	2	572								
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18C (0F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: # RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4500.																				
CITY AND STATE		ELEVATION: 668 TDZE: 661			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:								
SAGINAW, MI		AIRPORT NAME:			MBS INTL		RNAV (GPS) RWY 23, AMDT 2					AMDT: 1								
							1 FEBRUARY 2018					DATED 01/15/2009								

QUALITY
10
CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
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TAA

	<u>FROM</u>	<u>TO</u>	<u>ALT</u>
1.	143/30 CW 323/30 (NOPT)	143/9 CW 323/9	2700
	143/9 CW 323/9	FOROX (IF/IAF) (FB)	2300
2.	323/30 CW 143/30	323/9 CW 143/9	3100
	323/9 CW 143/9	FOROX (IF/IAF) (FO)	2300

CITY AND STATE

SAGINAW, MI

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**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMBS
RUNWAY	RW23
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W23A
LTP/FTP LATITUDE	433231.8290N
LTP/FTP LONGITUDE	0840403.6435W
LTP/FTP ELLIPSOIDAL HEIGHT	+01636
FPAP LATITUDE	433129.5015N
FPAP LONGITUDE	0840531.1860W
THRESHOLD CROSSING HEIGHT (TCH)	00054.3
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0312
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
 <u>CRC REMAINDER</u>	 16AE5744

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01980
FPAP ORTHOMETRIC HEIGHT	+01980

CITY AND STATE
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