

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												
NAGEE (IAF)	WERDO (NOPT) (FB)	139.44 / 5.00	2300	LPV: DA LNAV/VNAV: DA LNAV: RW05 CLIMB TO 2500 DIRECT FOROX AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 229.75 INBOUND. CHART FAS OBST: 789 TREE 433148N/0840557W FAS OBST: 829 AAO 432921N/0841019W 834 AAO 432845N/0841107W DISTANCE TO THLD FROM 200 HAT: 0.47 NM. CHART VDP AT 1.15 MILES TO RW05* *LNAV ONLY. WAAS CHANNEL # 82010 REFERENCE PATH ID: W05A CHART ASR.											
RUPUE (IAF)	WERDO (NOPT) (FB)	319.55 / 5.00	2300												
WERDO (IF/IAF)	OTILE (FB)	049.50 / 6.01	2300												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SW WERDO, RT, 049.50 INBOUND, 2300 FT. IN LIEU OF PT (IAF) 3. FAC: 049.57 FAF: OTILE DIST FAF TO MAP: 4.91 THLD: 4.91 4. MIN. ALT: WERDO 2300, OTILE 2300 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2300 GS ALT AT: OTILE OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 50.0 34:1 IS CLEAR 8. MSA FROM: _____				MAG VAR: 4W EPOCH YEAR: 1980											
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
LPV DA	866	2400	200	866	2400	200	866	2400	200	866	2400	200			
LNAV/VNAV DA	1059	4000	393	1059	4000	393	1059	4000	393	1059	4000	393			
LNAV MDA	1080	2400	414	1080	2400	414	1080	4000	414	1080	5000	414			
CIRCLING	1100	1	432	1120	1	452	1120	1 1/2	452	1220	2	552			
NOTES: CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV CAT D VISIBILITY TO RVR 6000. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 47C (116F). CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SAGINAW COUNTY H. W. BROWNE ALTIMETER SEE 8260-10															
CITY AND STATE		ELEVATION: 668 TDZE: 666		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
SAGINAW, MI		AIRPORT NAME: MBS INTL				RNAV (GPS) RWY 5, AMDT 1				AMDT: ORIG					
						15 JAN 2009				DATED 07/12/2001					

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NOTES CONT.

SETTING AND INCREASE ALL DA 36 FEET AND ALL MDA 40 FEET, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 5000.

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING SAGINAW COUNTY H. W. BROWNE ALTIMETER SETTING.

TAA

	FROM	TO	ALT
1.	320/30 CW 139/30 (NOPT)	320/10 CW 139/10 (FB)	2900
	320/10 CW 139/10	WERDO (IF/IAF) (FB)	2300
2.	139/30 CW 230/30	NAGEE (IAF) (FB)	2800
3.	230/30 CW 320/30	RUPUE (IAF) (FB)	3100

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FAS DATA BLOCK INFORMATION

DATA FIELD

DATA

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMBS
RUNWAY	RW05
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W05A
LTP/FTP LATITUDE	433136.5550N
LTP/FTP LONGITUDE	0840521.2805W
LTP/FTP ELLIPSOIDAL HEIGHT	+01685
FPAP LATITUDE	433231.9100N
FPAP LONGITUDE	0840403.5200W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

A6471F2C

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02028
FPAP ORTHOMETRIC HEIGHT	+02028

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ARINC PACKET - 424-18

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KMBSK5FR05	ANAGEE	010NAGEEK5EA0E	A	IF					18000		A	JS
SUSAP	KMBSK5FR05	ANAGEE	020WERDOK5EA0EE		010TF		13940050	+	02300			A	JS
SUSAP	KMBSK5FR05	ARUPUE	010RUPUEK5EA0E	A	IF					18000		A	JS
SUSAP	KMBSK5FR05	ARUPUE	020WERDOK5EA0EE		010TF		31960050	+	02300			A	JS
SUSAP	KMBSK5FR05	AWERDO	010WERDOK5EA0EE	CR	HF		04950040	+	02300	18000		A	JS
SUSAP	KMBSK5FR05	R	010WERDOK5EA0E	I	IF			+	02300	18000		A	JS
SUSAP	KMBSK5FR05	R	020OTILEK5EA1E	F	051TF		04950060	+	02300			A	JS
SUSAP	KMBSK5FR05	R	020OTILEK5EA2WALPV			ALNAV/VNAV	ALNAV					JS	
SUSAP	KMBSK5FR05	R	030RW05	K5PG0GY	M	031TF	04960049		00715	-300		A	JS
SUSAP	KMBSK5FR05	R	040FOROXXK5EA0EYM		010DF				02500			A	JS
SUSAP	KMBSK5FR05	R	050FOROXXK5EA0EE	HR	020HM		22980040	+	02500			A	JS

[illegible][illegible]

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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
	NAGEE	NAGEE	010	IAF	IF		FB				
	NAGEE	WERDO	020		TF		FB	1.0	139.4(135T)	005.0	02300
	RUPUE	RUPUE	010	IAF	IF		FB				
	RUPUE	WERDO	020		TF		FB	1.0	319.6(316T)	005.0	02300
	WERDO	WERDO	010		HF	R	FB		049.5(046T)	004.0	02300
		WERDO	010	FACF	IF		FB				02300
		OTILE	020	FAF	TF		FB	0.5	049.5(046T)	006.0	02300
		RW05	030	MAP	TF		FO	0.3	049.6(046T)	004.9	00715

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE
	FOROX	040		DF		FO	1.0			02500
	FOROX	050		HM	R	FO	2.0	229.8(226T)	004.0	02500

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	FOROX	N434010.82	W0835316.55	N4340.180	W08353.276
	NAGEE	N432731.64	W0842052.32	N4327.527	W08420.872
	OTILE	N432810.40	W0841010.40	N4328.173	W08410.173
	RUPUE	N432023.62	W0841115.47	N4320.394	W08411.258
	WERDO	N432357.73	W0841603.61	N4323.962	W08416.060
	RW05	N433136.56	W0840521.28	N4331.609	W08405.355

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW05	00665	50

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