

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.23

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> MBS	<u>PROCEDURE NAME</u> VOR RWY 14	<u>ORIGINAL/AMENDMENT</u> 14A	<u>CITY</u> SAGINAW	<u>STATE</u> MI
<u>AIRPORT ELEVATION</u> 668	<u>TDZE</u> 668	<u>SUPERSEDED</u> VOR RWY 14	<u>ORIGINAL/AMENDMENT</u> 14	<u>DATED</u> 02/01/2018
<u>FACILITY</u> MBS	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 25 JANUARY 2024	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 3W
				<u>EPOCH YEAR</u> 1965
				<u>CANCEL/SUSPEND</u>

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
MBS VOR/DME		WALRS/5.30 DME/RADAR					311.02	5.30	2200
WHIPP/16.88 DME	IAF	WALRS/5.30 DME/RADAR	NOPT				180.00 (HDG) & 131.02	3.66 & 8.96 (MBS R-311)	2200

MISSED APPROACH

MAP:

4.67 NM AFTER WALRS/5.30 DME/RADAR OR AT XODUY/MBS 0.63 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 THEN LEFT TURN ON HEADING 040 AND MBS R-108 TO REESE INT/15.22 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT L SIDE OF COURSE 311.02 OUTBOUND 2200 FT WITHIN 10 MILES OF WALRS/5.30 DME/RADAR (IAF)
-
- FAC: 131.02 FAF: WALRS/5.30 DME/RADAR DIST FAF TO MAP: 4.67 DIST FAF TO THLD: 4.67
- MIN ALT: WALRS/5.30 DME/RADAR 2200, ZETBI/1.91 DME 1120
- MSA FROM: MBS VOR/DME 3100



EQUIPMENT REQUIREMENTS NOTES:

DME OR RADAR REQUIRED.

NOTES:

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON MBS VOR/DME AIRWAY RADIALS 284 CW 356.

ADDITIONAL FLIGHT DATA:

CHART: 926 TOWER 433457N/0841002W
HOLD E, RT, 288.08 INBOUND.
FAS OBST: 869 AAO 433449N/0840945W.
FAC CROSSES RWY C/L EXTENDED 2995 FT FROM THLD.
WALRS TO RW14: 3.00/45.
CHART CIRCLING ICON.

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD

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
S-14	1120	1	452	1120	1	452	1120	1 3/8	452	1120	1 3/8	452			
CIRCLING	1120	1	452	1120	1	452	1240	1 1/2	572	1240	2	572			
ZETBI FIX MINIMUMS (DME REQUIRED)															
S-14	1040	1	372	1040	1	372	1040	1 3/8	372	1040	1 3/8	372			
CIRCLING	1080	1	412	1120	1	452	1240	1 1/2	572	1240	2	572			

CHANGES - REASONS

1. TERMINAL ROUTES: ADJUSTED WHIPP FROM "WHIPP INT/16.88 DME" TO "WHIPP/16.88 DME" - "INT" REMOVED FOR MOP VOR MON.
2. TERMINAL ROUTES: UPDATED DISTANCE FORMAT ON LEG WHIPP TO WALRS FROM "3.66 (HDG) & 8.96 (MBS R-311)" TO "3.66 (WHIPP HDG180) & 8.96 (MBS R-311)" - IAW 8260.19I 8-6-4.B.(3).
3. PROFILE LINE 1: UPDATED TERMINAL FIX DESCRIPTION FROM "WALRS" TO "WALRS/5.30 DME/RADAR" - IAW 8260.19I 8-2-6.C.
4. EQUIPMENT REQUIREMENTS: ADDED "DME OR RADAR REQUIRED"; REMOVED "CHART NOTE: DME OR RADAR REQUIRED" FROM NOTES SECTION - IAW 8260.19I 8-6-8.A.



COORDINATED WITH:

A4A

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ALPA

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AOPA

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APA

☒

HAI

☒

NBAA

☐

OTHER:

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ZOB ARTCC, MBS ATCT, AMGR

FLIGHT CHECKED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE
FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

Digitally signed by
MICHAEL GARRITY

OFFICE

DATE

DEVELOPED BY

MICHAEL R. GARRITY JR. (COLIN CAMPBELL)

Digitally signed by
MICHAEL GARRITY

Dec 11, 2023

OFFICE

AJV-A423

DATE

07/31/2023

APPROVED BY

MICHAEL R. GARRITY JR.

Digitally signed by
MICHAEL GARRITY

Dec 11, 2023

OFFICE

AJV-A421

DATE

01/25/2024

TITLE

MANAGER