

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29**

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> KAZO	<u>PROCEDURE NAME</u> ILS OR LOC RWY 35	<u>ORIGINAL/AMENDMENT</u> 24	<u>CITY</u> KALAMAZOO	<u>STATE</u> MI		
<u>AIRPORT ELEVATION</u> 874	<u>TDZE</u> 868	<u>SUPERSEDED</u> ILS OR LOC RWY 35	<u>ORIGINAL/AMENDMENT</u> 23	<u>DATED</u> 03/02/2017	<u>MAG VAR</u> 3W	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> I-AZO	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 20 APRIL 2023	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
STRKR/AZO 12.76 DME/RADAR	IF	AUSTN LOM/AZO 6.44 DME					354.10	6.32 (I-AZO)	2800

MISSED APPROACH

MAP:

ILS: DA
LOC: AZO 0.83 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 THEN CLIMBING LEFT TURN TO 2800 DIRECT AUSTN LOM/AZO 6.44 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT L SIDE OF COURSE 174.10 OUTBOUND 2800 FT WITHIN 10 MILES OF AUSTN LOM (IAF)
- 2.
3. FAC: 354.10 FAF: AUSTN LOM/AZO 6.44 DME DIST FAF TO MAP: DIST FAF TO THLD: 5.62
4. MIN ALT: AUSTN LOM/AZO 6.44 DME 2800, ZEXOS/AZO 2.32 DME 1400
5. DIST TO THLD FROM OM: 5.62 MM: IM: 150 HAT: GS ANT: 1042
6. MIN GS INCPT: 2800 GS ALT AT PFAF: OM: 2710 MM: IM:
7. GS ANGLE: 3.00 34:1: 20:1: TCH: 53.3
8. MSA FROM: AUSTN LOM 3000

EQUIPMENT REQUIREMENTS NOTES:

ADF REQUIRED.
DME REQUIRED FOR LOC ONLY.
RADAR REQUIRED FOR PROCEDURE ENTRY.



NOTES:

CHART NOTE: * RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA (NA WHEN USING BATTLE CREEK ALTIMETER SETTING).

CHART NOTE: DME FROM AZO DME. DME USE REQUIRES SIMULTANEOUS RECEPTION OF I-AZO AND AZO DME.

CHART NOTE: CIRCLING RWY 5, 9, 23, 27 NA AT NIGHT.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BATTLE CREEK ALTIMETER SETTING: INCREASE S-ILS 35 DA TO 1112 FEET; INCREASE ALL MDAS 60 FEET AND VISIBILITY S-LOC 35 CAT C/D TO RVR 4500.

ADDITIONAL FLIGHT DATA:

CHART AT OR BELOW 6000 AT AUSTN LOM/AZO 6.44 DME.

HOLD S, RT, 354.10 INBOUND.

CHART FAS OBST: 996 TRANSMISSION_LINE (26-021973) 421207N/0853243W.

CHART CIRCLING ICON.

MINIMUMS:

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

ALTERNATE: NA

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-ILS 35*	1068	2400	200	1068	2400	200	1068	2400	200	1068	2400	200				
S-LOC 35	1260	2400	392	1260	2400	392	1260	3500	392	1260	3500	392				
CIRCLING	1340	1	466	1340	1	466	1480	1 3/4	606	1480	2	606				



CHANGES - REASONS

1. DECREASED CIRC CAT A/B MDA/HAA FROM 1380/506 TO 1340/466. - NEW CONTROLLING OBSTACLE.
2. REMOVED FEEDER FROM AZOVOR/DME. - AZO VOR DECOMMISSIONING.
3. ADDED INTERMEDIATE SEGMENT FROM FIX STRKR. - PER ATC/FPT REQUEST.
4. LOC MAP UPDATED FROM "5.62 NM AFTER AUSTN LOM/AZO VOR/DME 6.44 DME OR AT AZO VOR/DME 0.83 DME" TO "AZO 0.83 DME." - UPDATED TO REFLECT AZO VOR DECOMMISSIONING.
5. UPDATED MISSED APPROACH FROM "CLIMB TO 2600 ON AZO VOR/DME R-353.16 TO UPJON/AZO VOR/DME 5.63 DME AND HOLD" TO "CLIMB TO 2000 THEN CLIMBING LEFT TURN TO 2800 DIRECT AUSTN LOM/AZO 6.44 DME AND HOLD." - AZO VOR DECOMMISSIONING; ALTERNATE MISSED REMOVED.
6. ALTERNATE MISSED APPROACH INSTRUCTIONS REMOVED. - PER FPT; PMM VOR UNUSABLE BEYOND 10NM.
7. LINE 4: UPDATED FROM AUSTN LOM/AZO VOR/DME 6.44 DME 2800 TO AUSTN LOM/AZO 6.44 DME 2800 AND ZEXOS/AZO VOR/DME 2.12 DME 1340*, *LOC ONLY TO ZEXOS/AZO DME 2.32 DME 1400. - BOTH FIXES ID CHANGED REFERENCE AZO VOR/DME CHANGE TO AZO DME, STEPDOWN FIX MOVED; *LOC ONLY NO LONGER REQUIRED.
8. LINE 6: UPDATED GS ALT AT OM FROM 2728 TO 2710. - UPDATED EVALUATION.
9. ADDED EQUIPMENT REQUIREMENTS NOTES: DME REQUIRED FOR LOC ONLY, RADAR REQUIRED FOR PROCEDURE ENTRY, ADF REQUIRED. - IAW 8260.19 8-6-8A(2)(C), 8-6-9G AND 6-8-8A(2).
10. UPDATED NOTE FROM **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA TO NOTE: * RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA (NA WHEN USING BATTLE CREEK ALTIMETER SETTING). - IAW 8260.19I 8-6-11 K(1) AND REMOVED 1 OF 2 *.
11. REMOVED NOTE: DME REQUIRED. - MODIFIED THE NOTE AND MOVED TO PBN REQUIREMENTS NOTES.
12. UPDATED CHART NOTE: FROM "NIGHT LANDING: RWY 5, 9, 23, 27 NA" TO "CHART NOTE: CIRCLING RWY 5, 9, 23, 27 NA AT NIGHT." - IAW 8260.19I 8-6-11 O(2)G.
13. REMOVED CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON AZO VOR/DME AIRWAY RADIALS 192 CW 232. - FEEDER REMOVED.
14. REMOVED CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 35 CATS C AND D VISIBILITY TO 1 3/8 MILE. - NEW EVALUATION COMPLETED; NO LONGER REQUIRED.
15. ADDED CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BATTLE CREEK ALTIMETER SETTING: INCREASE S-ILS 35 DA TO 1112 FEET; INCREASE ALL MDAS 60 FEET AND VISIBILITY S-LOC 35 CAT C/D TO RVR 4500. - ADDED PER FPT REQUEST.
16. REMOVED ADDITIONAL FLIGHT DATA: CHART PLANVIEW NOTE: ADF OR DME REQUIRED. - MODIFIED THE NOTE AND MOVED TO PBN REQUIREMENTS NOTES.
17. UPDATED MISSED APPROACH HOLDING FROM "HOLD W, RT, 173.16 INBOUND" TO "HOLD W, RT, 354.10 INBOUND." - UPDATED MISSED APPROACH INSTRUCTIONS.
18. REMOVED CHART IN PLANVIEWS "ALTERNATE MA HOLDING, HOLD W BRONZ INT/PMM VOR/DME 21.35 DME, RT, 111.62 INBOUND" AND "BRONZ INT/PMM VOR/DME 21.35 DME." - ALTERNATE MISSED APPROACH REMOVED.
19. UPDATED CHART FAS OBST FROM "996 T-L TWR 421207N/0853243W" TO "996 TRANSMISSION_LINE (26-021973) 421207N/0853243W." - UPDATED DESCRIPTION; OBSTACLE ID ADDED IAW 8260.19I 8-6-10C.
20. REMOVED CHART: ASR - NO LONGER REQUIRED; NEED DETERMINED BY CHARTING.
21. REMOVED CHART IN PLANVIEW: (CFCFI) (420137N/0853024W). - FIX REPLACED; INTERMEDIATE SEGMENT ADDED.
22. LINE 8: MSA CENTER POINT UPDATED FROM AZ OM TO AUSTN LOM. - IMPLEMENTATION OF 8260.19I ATTACHMENT 4 #6.
23. FINAL TYPE: CHANGE FROM "S-ILS 35**" TO "S-ILS 35*." - THE SECOND * NO LONGER REQUIRED.
24. ALTERNATE MINIMUMS: UPDATED FROM ILS: STANDARD CAT C/D 700-2, NA WHEN CONTROL TOWER CLOSED; LOC: STANDARD, NA WHEN CONTROL TOWER CLOSED TO NA - IAW 8260.19I 2-4-6C(1) REFERENCE MA NAVAID AZ NDB UNMONITORED.
25. LINE 3: REMOVED DIST FAF TO MAP: 5.62. - NOT REQUIRED.
26. ADDED CHART NOTE: DME FROM AZO DME. DME USE REQUIRES SIMULTANEOUS RECEPTION OF I-AZO AND AZO DME. - IAW 8260.19I 8-6-9K.
27. ADDED ADDITIONAL FLIGHT DATA ENTRY CHART AT OR BELOW 6000 AT AUSTN LOM/AZO 6.44 DME. - RESTRICTED MAX PT ALTITUDE.

COORDINATED WITH:

AAA **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:** ZAU, AZO APP CON, AZO ATCT, AMGR, ST AV DIR

FLIGHT CHECKED BY

JAMES ONIEAL

Digitally signed by
CASIMIR L TABAKA

Jan 10, 2023

OFFICE

FPO

DATE

01/05/2023

DEVELOPED BY

CASIMIR L. TABAKA (BARBARA GORMAN)

Digitally signed by
CASIMIR L TABAKA

Dec 19, 2022

OFFICE

AJV-A432

DATE

08/19/2022

APPROVED BY

JOHNNIE BAKER

Digitally signed by
CASIMIR L TABAKA

Dec 19, 2022

OFFICE

AJV-A430

DATE

TITLE
MANAGER

