

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</u> ALBERT LEA MUNI	<u>AIRPORT ID</u> KAEL	<u>PROCEDURE NAME</u> VOR RWY 35	<u>ORIGINAL/AMENDMENT</u> 1C	<u>CITY</u> ALBERT LEA	<u>STATE</u> MN
<u>AIRPORT ELEVATION</u> 1261	<u>TDZE</u> 1261	<u>SUPERSEDED</u> VOR/DME RWY 35	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 11/10/2016	<u>MAG VAR</u> 1E
<u>FACILITY</u> AEL	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 3 JANUARY 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2010

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>
ALMAY INT		AEL VOR/DME					156.71	24.45	2900
KASPR INT		AEL VOR/DME					196.48	17.85	2900
AEL VOR/DME		POTOY/5.00 DME					162.00	5.00	2900
MCW VOR/DME	IAF	IKABE/11.00 DME	NOPT				357.32	24.73	2900
IKABE/11.00 DME	IF	POTOY/5.00 DME					342.00	6.00 (AEL R-162)	2800

MISSED APPROACH

MAP:

COBOS/AEL 0.48 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2500 THEN CLIMBING RIGHT TURN TO 2900 DIRECT AEL VOR/DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT R **SIDE OF COURSE** 162.00 **OUTBOUND** 2900 **FT WITHIN** 10 **MILES OF** POTOY (IAF)
- 2.
3. **FAC:** 342.00 **FAF:** POTOY/5.00 DME **DIST FAF TO MAP:** **DIST FAF TO THLD:** 4.52
4. **MIN ALT:** POTOY/5.00 DME 2800, CILSO/2.10 DME 1880
8. **MSA FROM:** AEL VOR/DME 3400

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

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



CHART NOTE: RWY 35 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
*1940 WHEN USING AUSTIN ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

CILSO TO RW35: 3.31/50.
CHART FAS OBST: 1428 TOWER 433847N/0932205W.
FAC CROSSES RWY C/L EXTENDED 2783 FT FROM THLD.
HOLD N, RT, 162.00 INBOUND

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-35	1740	1	479	1740	1	479	1740	1 3/8	479	1740	1 3/8	479			
CIRCLING	1780	1	519	1780	1	519	1780	1 1/2	519	1820	2	559			

CHANGES - REASONS

1. CHANGED PROCEDURE NAME FROM VOR/DME RWY 35 TO VOR RWY 35 - IN ACCORDANCE WITH FAAO 8260.3C, PARA 1-6-2.
2. ADDED EQUIPMENT REQUIREMENT NOTE DME REQUIRED - IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-8.
3. AMENDED S-35 MDA/HAT FROM 1720/519 TO 1740/539 - NEW CONTROLLING OBSTACLE IDENTIFIED IN STEPDOWN FINAL.
4. DELETED CHART 1571 TOWER 433807N/0932221W IN ADDITIONAL FLIGHT DATA - NO LONGER REQUIRED.
5. DELETED CHART FAS OBST 1415 TOWER 433956N/0932225W IN ADDITIONAL FLIGHT DATA - REPLACED BY NEW FAS OBST.
6. ADDED CHART FAS OBST 1428 TOWER 433847N/0932205W IN ADDITIONAL FLIGHT DATA - NEW CONTROLLING OBSTACLE IDENTIFIED.
7. DELETED VDP AT 1.44 DME, 0.96 NM TO THLD - IN ACCORDANCE WITH FAAO 8260.3D, PARA 2-6-5A(5), COMPUTED VDP IS LESS THAN 0.50 NM FROM FINAL STEPDOWN FIX.
8. DELETED NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA - REPLACED BY UPDATED NOTE.
9. ADDED NOTE: RWY 35 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - FORMATTED IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-11K(3).
10. DELETED NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE AUSTIN ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET - LOCAL AWOS IS ON WMSCR. BACK-UP ALTIMETER ADJUSTMENTS AND NOTES MOVED TO FAA FORM 8260-9 FOR CONTINGENCY USE DURING Kael AWOS OUTAGES.
11. DELETED NOTE: CAT D STRAIGHT-IN MINIMUMS NA WHEN USING AUSTIN ALTIMETER SETTING - LOCAL AWOS IS ON WMSCR. BACK-UP ALTIMETER ADJUSTMENTS AND NOTES MOVED TO FAA FORM 8260-9 FOR CONTINGENCY USE DURING Kael AWOS OUTAGES.
12. DELETED NOTE: VDP NA WITH AUSTIN ALTIMETER SETTING - NO LONGER NEEDED, VDP REMOVED FROM PROCEDURE.
13. DELETED NOTE: CIRCLING TO RWY 5/23 NA AT NIGHT - REPLACED BY UPDATED NOTE.
14. ADDED NOTE: CIRCLING RWY 5, 23 NA AT NIGHT - FORMATTED IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-11O(2)(G).
15. DELETED ALTERNATE MINIMUMS RESTRICTION NA WHEN LOCAL WEATHER NOT AVAILABLE - NO LONGER REQUIRED, LOCAL AWOS IS ON WMSCR.
16. INCORPORATED CHANGES FROM AMDT 1A AND 1B - IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-3-4C(2).

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZMP, RST APP CON, AMGR

FLIGHT CHECKED BY

GLEN B FREEMAN
Digitally signed by JACOB POWERS
Oct 26, 2018

DEVELOPED BY

PETER R. GUIMOND
Digitally signed by PETER R GUIMOND
Aug 21, 2018

APPROVED BY

JULIE MORGAN
Digitally signed by JACOB POWERS
Oct 26, 2018

OFFICE

FICO

DATE

10/23/18

OFFICE

AJV-5422

DATE

08/21/2018

OFFICE

AJV-5420

DATE

TITLE

MANAGER

