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.

AIRPORT AIRPORT ID **PROCEDURE NAME ORIGINAL/AMENDMENT** CITY STATE WATERLOO RGNL WATERLOO **KALO** VOR RWY 12 10B IΑ

AIRPORT ELEVATION ORIGINAL/AMENDMENT **EPOCH YEAR TDZE SUPERSEDED** DATED MAG VAR VOR RWY 12 873 873 10A 07/21/2016 0E 2020

FACILITY COORDINATES OF FACILITIES ACTUAL EFFECTIVE DATE REQUIRED EFFECTIVE DATE CANCEL/SUSPEND ALO ROUTINE

13 SEPTEMBER 2018

TERMINAL ROUTES

FROM	FIX TYPE	<u>TO</u>	FIX TYPE	LEG TYPE	FO/FB	RNP	<u>COURSE</u>	DISTANCE	ALTITUDE

MISSED APPROACH

MAP:

ALO VOR/DME

MISSED APPROACH INSTRUCTIONS:

CLIMBING LEFT TURN TO 3300 ON ALO VOR/DME R-096 TO DEWAR INT AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT L SIDE OF COURSE 313.00 **OUTBOUND** 2800 FT WITHIN 10 MILES OF ALO VOR/DME (IAF)

3. FAC: 133.00 FAF: DIST FAF TO THLD: DIST FAF TO MAP:

4. MIN ALT:

8. MSA FROM: ALO VOR/DME 360-090 3200, 090-180 4000, 180-360 2600

EQUIPMENT REQUIREMENTS NOTES:

NOTES:

CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-12 CAT C/D VISIBILITY TO 1 3/4 SM.

ADDITIONAL FLIGHT DATA:



AIRPORT AIRPORT ID WATERLOO RGNL KALO PROCEDURE NAME VOR RWY 12 ORIGINAL/AMENDMENT CITY STATE

VOR RWY 12 10B WATERLOO IA

CHART CIRCLING ICON.

CHART VDP AT 2.59 DME

DISTANCE VDP TO THLD 1.78 NM FAS OBST: 1199 AAO 424014N/0923252W.

FAC CROSSES RWY C/L EXTENDED 1650 FT FROM THLD.

HOLD E, RT, 276.49 INBOUND

MINIMUMS:

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

ALTERNATE: NA

STANDARD - CAT D 800-2 1/4

CATEGORY:	Α		В			С			D			Е			
FINAL TYPE	DA/MDA	<u>VIS</u>	HAT/HAA												
S-12	1500	2400	627	1500	2400	627	1500	1 3/8	627	1500	1 3/8	627			
CIRCLING	1500	1	627	1500	1	627	1500	1 3/4	627	1600	2 1/4	727			

CHANGES - REASONS

- 1. UPDATED PROCEDURAL MAG VAR FROM 6E/65 TO 0E/2020 MAG VAR TOLERANCE.
- 2. UPDATED PT COURSE FROM 307.00 TO 313.00-MAG VAR/OPTIMUM ALIGNMENT.
- 3. UPDATED FAC FROM 127.00 TO 133.00 MAG VAR/OPTIMUM ALIGNMENT.
- 4. UPDATED MSA SECTOR 180-360 FROM 2500 TO 2600 OBSTACLE EVALUATION.
- 5. UPDATED S-12 MDA/HAT FROM 1340/467 TO 1500/627 OBSTACLE EVALUATION.
- 6. UPDATED S-12 VISIBILITY CAT C FROM 4000 TO 1 3/8 SM, CAT D FROM 5000 TO 1 3/8 VIS CK CALCULATOR.
- 7. UPDATED CIRCLING MDA/HAA CAT A/B FROM 1380/507 TO 1500/627, CAT C FROM 1380/507 TO 1500/627, CAT D FROM 1480/607 TO 1600/727 OBSTACLE EVALUATION.
- 8. UPDATED CIRCLING VISIBILITY CAT C FROM 1 1/2 TO 1 3/4, CAT D FROM 2 TO 2 1/4 VIS CK CALCULATOR.
- 9. ADDED MALSR INOP LIGHTING CHART NOTE INOP TABLE DOES NOT HAVE SUFFICIENT INCREASE.
- 10. ADDED VDP NA WHEN USING INDEPENDENCE ALTIMETER SETTING NOTE BACK UP ALT SOURCE.
- 11. ADDITIONAL FLIGHT DATA, UPDATED HOLD FROM 270.49 TO 276.49 MAG VAR.
- 12. UPDATED FAS OBS FROM 1021 TREE TO 1199 AAO.
- 13. UPDATED VDP FROM 2.10 DME/1.29 THLD TO 2.59DME/1.78 THLD RECALCULATED VISUAL DESCENT POINT.
- 14. ADDED CHART CIRCLING ICON NEW CIRCLING RADII APPLIED.
- 15. UPDATED ALTERNATE MINS FROM NA WHEN LOCAL WX NOT AVAIL TO STANDARD @ ON WMSCR

Jul 31, 2018

COORDINATED WITH:

<u>A4A</u> X ALPA X AOPA X APA X <u>HAI</u> NBAA X OTHER: ZAU, ALO ATCT, AMGR, ALO APP CON **FLIGHT CHECKED BY** Digitally signed by DATE **OFFICE PENDING** ROBERT G HAMILTON Jul 31, 2018 **DEVELOPED BY** Digitally signed by OFFICE DATE **HEIDI SNIDER HEIDI SNIDER** AJV-5423 05/04/2018 Jul 02, 2018 TITLE **APPROVED BY OFFICE** DATE Digitally signed by ROBERT G HAMILTON JULIE MORGAN AJV-5420 MANAGER

> ONALITY 25 CHECKER