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 ID KALO			<u>I</u>	<u>0</u>	RIGINAL/A 16	MENDMENT C	<u>CITY</u> WATERLOO	<u>STATE</u> IA	
AIRPORT ELEVATION 873	1 TDZE 867		SUPERSEDED VOR RWY 24			ORIGINAL/AMENDMENT 16B			ED MAG VAR '2016 0E		
ALO	COORDINATES OF F		CTUAL EFFECTIN 13 SEPTEMBER	ROUTINE CANCEL/SUSPEND							
ERMINAL ROUTES											
FROM	FIX TYPE	<u>T0</u>		FIX TYPE	LEG TYPE	FO/FB	<u>RNP</u>	COURSE	DISTANCE	ALTITUDE	
ALO VOR/DME /IISSED APPROACH INST I CLIMB TO 1500 THEN CLIN		2800 ON ALO VOR/[DME R-215 TO NE	=VIS INT AN							
ALTERNATE MISSED APP	ROACH INSTRUCTION	<u>S:</u>			D HOLD.						
	ROACH INSTRUCTION	<u>S:</u>			D HOLD.						
ALTERNATE MISSED APP PROFILE: 1. PT L SIDE OF COUF		<u>S:</u> UTBOUND 2600	FT WITHIN 1	_	d hold. E s of alo \	/OR/DME	(IAF)				
PROFILE: 1. PT L SIDE OF COUI				_	-	/OR/DME	(IAF)				
PROFILE: I. PT L SIDE OF COU 2. 3. FAC: 259.07 FAF	RSE 079.07 O	UTBOUND 2600 DIST FAF	FT WITHIN 1	_	E S OF ALO V	/OR/DME F TO THL	()				
<u>PROFILE:</u> 1. PT ∟ SIDE OF COUI 2.	RSE 079.07 O	UTBOUND 2600 DIST FAF 540	FT WITHIN 1 TO MAP:	_	E S OF ALO V		()				

NOTES:

CHART NOTE: RWY 24 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

ADDITIONAL FLIGHT DATA:

OUALITL 25 CHECKER

	<u>PORT</u> LOO RGNL		AIRPO KAI				CEDURE NA VOR RWY 24		ORIGINAL/AMENDMEN 16C			<u>CITY</u> WATERLOO		<u>STATE</u> IA	
CHART CIRCLING ICON. JEKEM/ALO VOR/DME 2.40 DME TO RW24: 3.00/41.7. CHART VDP AT 1.64 DME DISTANCE VDP TO THLD 1.23 NM CHART FAS OBST: 1369 TOWER 423201N/0921537W, 1049 TOWER 423228N/0922021W. FAC CROSSES RWY C/L EXTENDED 3002 FT FROM THLD. HOLD SW, RT, 034.60 INBOUND MINIMUMS: TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT ALTERNATE: NA STANDARD - CAT D 800-2 1/4															
<u>ALTERNATE:</u> NA			1 0 000 2 1/												
CATEGORY:		Α			В			С			D			Е	
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-24	1540	1	673	1540	1	673	1540	2	673	1540	2 1/4	673			
CIRCLING	1540	1	667	1540	1	667	1540	2	667	1600	2 1/4	727			

JEKEM FIX MINIMUMS

S-24	1300	1	433	1300	1	433	1300	1 1/4	433	1300	1 1/2	433		
CIRCLING	1360	1	487	1400	1	527	1480	1 3/4	607	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 073.10 TO 079.07 - MAG VAR.

3. UPDATED FAC FROM 253.10 TO 259.07 - MAG VAR/OPTIMUM COURSE.

4. UPDATED MSA SECTOR 180-360 FROM 2500 TO 2600 - OBSTACLE EVALUATION.

5. UPDATED S-24 CIRCLING MDA/HAA CAT D FROM 1540/667 TO 1600/727 - OBSTACLE EVALUATION.

6. UPDATED S-24 DME MINIMUMS; ADDED NAMED FIX JEKEM, UPDATED CIRCLING MDA/HAA FROM 1380/507 TO 1360/487 CAT B FROM 1380/507 TO 1400/527, CAT C FROM 1380/507 TO 1480/607, CAT D FROM 1480/607 TO 1600/727 - OBSTACLE EVALUATION.

7. UPDATED CIRCLING VISIBILITY CAT C FROM 1 1/2 TO 1 3/4, CAT D FROM 2 TO 2 1/4 - VIS CK CALCULATOR.

8. ADDED VDP NA WHEN USING INDEPENDENCE ALTIMETER SETTING NOTE TO -9- BACK UP ALT SOURCE.

9. ADDITIONAL FLIGHT DATA, UPDATED HOLD FROM 029 TO 034.60 - MAG VAR.

10. UPDATED FAS OBS FROM 977 ATCT TO 1369 TOWER & 1049 TOWER - FINAL OBSTACLES.

11. UPDATED VDP FROM 1.43 DME/1.02 THLD TO 1.64 DME/1.23 THLD - RECALCULATED VISUAL DESCENT POINT.

12. UPDATED VDA FROM ALO 2.40 DME TO RW24: 2.97/50 TO JEKEM/ALO VOR/DME 2.40 DME TO RW24: 3.00/41.7. - UPDATED VISUAL ANGLE TO MATCH VGSI.

13. ADDED CHART CIRCLING ICON - NEW CIRCLING RADII APPLIED.

14. UPDATED FAC CROSSES RWY C/L FROM 3001 TO 3002 - RECALCULATED.

15. UPDATED ALTERNATE MINS FROM NA WHEN LOCAL WX NOT AVAIL TO STANDARD @ - ON WMSCR

16. UPDATED MISSED APPROACH FROM CLIMB TO 1500 THEN CLIMBING LEFT TURN TO 2800 ON ALO VOR/DME R-209 TO NEVIS INT AND HOLD TO CLIMB TO 1500 THEN CLIMBING LEFT TURN TO 2800 ON ALO VOR/DME R-215 TO NEVIS INT AND HOLD. - MAG VAR

17. REMOVED NOTE: WHEN CONTROL TOWER CLOSED STRAIGHT IN MINIMUMS NA AT NIGHT. - RWY HAS COMMISSIONED PCL.

	AIRPORT AIRPORT ID ERLOO RGNL KALO		PROCEDURE NAME VOR RWY 24	ORIGINAL/AMENDMENT 16C	<u>CITY</u> WATERLOO	<u>State</u> IA
COORDINATED WITH:	<u>aopa X apa X hai [</u>	<u>NBAA X</u>	OTHER: ZAU, WATERLOO ATCT, AM	IGR, ALO APP CON		
<u>flight checked by</u> PENDING	Digitally signed by ROBERT G HAMILTON Jul 31, 2018		OFFICE	DATE		
DEVELOPED BY	Digitally signed by		OFFICE	DATE		
HEIDI SNIDER	HEIDI SNIDER		AJV-5423	05/09/2018		
APPROVED BY JULIE MORGAN	Jun 28, 2018 <i>Digitally signed by</i> ROBERT G HAMILTO Jul 31, 2018	N	OFFICE AJV-5420	DATE	<u>TITLE</u> MANAG	

