

**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> KDV L	<u>PROCEDURE NAME</u> ILS OR LOC RWY 31	<u>ORIGINAL/AMENDMENT</u> 4	<u>CITY</u> DEVILS LAKE	<u>STATE</u> ND		
<u>AIRPORT ELEVATION</u> 1469	<u>TDZE</u> 1450	<u>SUPERSEDED</u> ILS OR LOC/DME RWY 31	<u>ORIGINAL/AMENDMENT</u> 3B	<u>DATED</u> 03/31/2016	<u>MAG VAR</u> 7E	<u>EPOCH YEAR</u> 2000
<u>FACILITY</u> I-VKE	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 10 AUGUST 2023	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 23-16.

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
GRETE/DVL 12.84 DME/RADAR	IF/IAF	WOVED/DVL 5.84 DME/RADAR					311.07	7.00 (I-VKE)	3200

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.38 NM AFTER WOVED/DVL 5.84 DME/RADAR OR AT DVL 0.48 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3400 DIRECT KRAMR AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD SE GRETE, RT, 311.07 INBOUND, 3400 FT. IN LIEU OF PT (IAF), MAX 6000.
- FAC: 311.07 FAF: WOVED/DVL 5.84 DME/RADAR DIST FAF TO MAP: 5.38 DIST FAF TO THLD: 5.38
- MIN ALT: GRETE/DVL 12.84 DME/RADAR 3400, WOVED/DVL 5.84 DME/RADAR 3200
- DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT: 852
- MIN GS INCPT: 3200 GS ALT AT PFAF: WOVED/DVL 5.84 DME/RADAR 3200 OM: MM: IM:
- GS ANGLE: 3.00 34:1: 20:1: TCH: 43.9
- MSA FROM: ARP KDV L 3400



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

EQUIPMENT REQUIREMENTS NOTE:

DME OR RADAR REQUIRED.

NOTES:

CHART NOTE: VDP NA WHEN USING CANDO ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CANDO ALTIMETER SETTING AND INCREASE S-ILS 31 DA TO 1711 FEET; INCREASE ALL MDAS 80 FEET AND S-LOC 31 VISIBILITY CAT C/D 1/8 SM, AND CIRCLING VISIBILITY CAT C/D 1/4 SM.
CHART NOTE: DME FROM DVL DME. DME USE REQUIRES SIMULTANEOUS RECEPTION OF I-VKE AND DVL DME.
CHART NOTE: FOR INOPERATIVE ALS WHEN USING CANDO ALTIMETER SETTING, INCREASE S-ILS 31 ALL CATS VISIBILITY TO 7/8 SM.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 31 CAT C/D VISIBILITY TO 1 3/8 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
HOLD NW, RT, 130.91 INBOUND.
FAS OBST: 1670 AAO 480226N/0984830W.
1675 AAO 480136N/0984803W.
CHART VDP AT 1.82 DME.
DISTANCE VDP TO THLD 1.35 NM.

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 31	1650	1/2	200	1650	1/2	200	1650	1/2	200	1650	1/2	200			
S-LOC 31	1920	1/2	470	1920	1/2	470	1920	1	470	1920	1	470			
CIRCLING	2000	1	531	2000	1	531	2240	2 1/4	771	2240	2 1/2	771			



CHANGES - REASONS

1. CHANGED PROCEDURE NAME FROM ILS OR LOC/DME RWY 31 TO ILS OR LOC RWY 31 - REQUIRED BY CURRENT CRITERIA.
2. ADDED EQUIPMENT REQUIREMENTS NOTE: "DME OR RADAR REQUIRED" - CHANGE IN PROCEDURE NAME/DME RADAR REQUIRED FOR IF (GRETE) OR FAF (WOVED).
3. CHANGED VDP VALUES (ADDITIONAL FLIGHT DATA) FROM: "CHART VDP AT 1.76 DME*. DISTANCE VDP TO THLD 1.29 NM *LOC ONLY" TO: "CHART VDP AT 1.82 DME. DISTANCE VDP TO THLD 1.35 NM" - S-LOC 31 MDA CHANGED FROM 1780 TO 1920.
4. DELETED WADIM AND NERDE IAF ARC SEGMENTS USING DVL VOR/DME FROM PROCEDURE - DVL VOR PORTION SCHEDULED DECOMMISSIONING/FPT.
5. DELETED DVL VOR/DME FEEDER FROM PROCEDURE - DVL VOR PORTION SCHEDULED DECOMMISSIONING/FPT.
6. CHANGED FAS OBSTACLE INFORMATION (ADDITIONAL FLIGHT DATA) FROM: "1512 POLE 480606N/0985320W" TO: "1670 AAO 480226N/0984830W" AND ADDED 7:1 OBSTACLE: 1675 AAO 480136N/0984803W. - NEW OBSTACLE EVALUATION.
7. CHANGED ALTIMETER ADJUSTMENT CHART NOTE FROM: "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CANDO ALTIMETER SETTING AND INCREASE ALL DA 63 FEET AND ALL MDA 80 FEET, INCREASE S-LOC 31 CAT C AND D VISIBILITY 1/8 MILE AND CIRCLING CAT C AND D VISIBILITY 1/4 MILE" TO: "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CANDO ALTIMETER SETTING AND INCREASE S-ILS 31 DA TO 1711 FEET; INCREASE ALL MDAS 80 FEET AND S-LOC 31 VISIBILITY CAT C/D 1/8 SM, AND CIRCLING VISIBILITY CAT C/D 1/4 SM" - RASS ADJUSTMENT CHANGED FROM 63' TO 61' IAW 8260.3E, CHAPTER 3. UPDATED NOTE IAW 8260.19I.
8. CHANGED INOPERATIVE TABLE CHART NOTE FROM: "FOR INOPERATIVE MALSR WHEN USING CANDO ALTIMETER SETTING, INCREASE S-ILS 31 ALL CATS VISIBILITY TO 7/8 MILE" TO: "FOR INOPERATIVE ALS WHEN USING CANDO ALTIMETER SETTING, INCREASE S-ILS 31 ALL CATS VISIBILITY TO 7/8 SM" - IAW 8260.19I CRITERIA.
9. DELETED PROCEDURE TURN AT WOVED (FAF) - PER ATC/FPT REQUEST/TO MATCH RNAV GPS RWY 31.
10. CHANGED INTERMEDIATE FIX (IF) FROM USNUW TO GRETE - PER FPT REQUEST/TO MATCH RNAV GPS RWY 31.
11. ADDED HOLD-IN-LIEU AT GRETE - PER ATC/FPT REQUEST/TO MATCH RNAV GPS RWY 31.
12. CHANGED MSA CENTERPOINT FROM DVL VOR/DME TO KDLV - IAW 8260.19I, 8-6-7 H(1)/DVL VOR PORTION DECOMMISSIONING.
13. CHANGED INTERMEDIATE LENGTH FROM 9.16 TO 7.00 - INTERMEDIATE FIX CHANGED TO MATCH RNAV GPS 31.
14. CHANGED MISSED APPROACH INSTRUCTIONS FROM: "CLIMB TO 3200 THEN LEFT TURN DIRECT DVL VOR/DME AND HOLD" TO: "CLIMB TO 3400 DIRECT KRAMR AND HOLD." - REQUESTED BY ATC/FPT/CONVENTIONAL MISSED APPROACH REPLACED BY RNAV MISSED APPROACH (DVL DECOMMISSIONING)".
15. ADDED PBN REQUIREMENTS NOTE: "RNP APCH - GPS" - IAW 8260.19I
16. RAISED S-LOC 31 MDA/HAT FROM 1780/337 TO 1920/470 - NEW CONTROLLING OBSTACLE.
17. RAISED S-LOC 31 VISIBILITY CAT C/D FROM 1/2 TO 1 - INCREASED S-LOC 31 HAT.
18. CHANGED CHART NOTE FROM: "DME FROM DVL VOR/DME. SIMULTANEOUS RECEPTION OF 1-VKE AND DVL DME REQUIRED" TO: "DME FROM DVL DME. DME USE REQUIRES SIMULTANEOUS RECEPTION OF I-VKE AND DVL DME" - 8260.19I, 8-6-9 K.
19. ADDED CHART NOTE: "VDP NA WHEN USING CANDO ALTIMETER SETTING" - 8260.19I, 8-6-9 E(9).
20. FAF FIX MOVED 2.42 FEET S. FROM LAT/LONG: 480239.87N/0984846.76W TO: 480239.85N/0984846.77W - 8260.19I/CURRENT CRITERIA.
21. ADDED CHART NOTE: "FOR INOPERATIVE ALS, INCREASE S-LOC 31 CAT C/D VISIBILITY TO 1 3/8 SM - IAW 8260.19I CRITERIA.

06/28/2023: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 06/01/2023.
PROFILE VIEW: ADDED GRETE/DVL 12.84 DME/RADAR 3400 TO LINE 4. MIN ALT.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** AMGR, ZMP ARTCC, GFK FSS

FLIGHT CHECKED BY

WIEBE, GREGORY SCOTT

*Digitally signed by***CASIMIR L TABAKA**

Jun 28, 2023

OFFICE

fiog

DATE

5/31/2023

DEVELOPED BY

CASIMIR L. TABAKA (THERON CYRUS)

*Digitally signed by***CASIMIR L TABAKA**

Jun 28, 2023

OFFICE

AJV-A432

DATE

01/06/2023

APPROVED BY

CASIMIR TABAKA

*Digitally signed by***CASIMIR L TABAKA**

Jun 28, 2023

OFFICE

AJV-A430

DATE**TITLE**
MANAGER

QUALITY
16
CHECKED