

**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> KYKN	<u>PROCEDURE NAME</u> ILS OR LOC RWY 31	<u>ORIGINAL/AMENDMENT</u> 6	<u>CITY</u> YANKTON	<u>STATE</u> SD	
<u>AIRPORT ELEVATION</u> 1306	<u>TDZE</u> 1285	<u>SUPERSEDED</u> ILS OR LOC RWY 31	<u>ORIGINAL/AMENDMENT</u> 5	<u>DATED</u> 06/17/2021	<u>MAG VAR</u> 3E
<u>FACILITY</u> I-YKN	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 20 APRIL 2023	<u>REQUIRED EFFECTIVE DATE</u> 04/20/2023	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2025

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
HUGAT/YKN DME 13.46 DME	IF/IAF	WINEL/YKN DME 6.05 DME					316.76	7.41 (I-YKN)	3100

MISSED APPROACH

MAP:

ILS: DA
LOC: YKN DME 0.47 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3500 DIRECT YOTUS AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3500.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD SE HUGAT, RT, 316.76 INBOUND, 3500 FT. IN LIEU OF PT (IAF), MAX 6000.
3. FAC: 316.76 FAF: WINEL/YKN DME 6.05 DME DIST FAF TO MAP: 5.59 DIST FAF TO THLD: 5.59
4. MIN ALT: HUGAT/YKN DME 13.46 DME 3500, WINEL/YKN DME 6.05 DME 3100, ZIMUK/YKN DME 2.97 DME 2100
5. DIST TO THLD FROM OM: 5.59 MM: IM: 150 HAT: GS ANT: 890
6. MIN GS INCPT: 3100 GS ALT AT PFAF: WINEL/YKN DME 6.05 DME 3100 OM: MM: IM:
7. GS ANGLE: 3.00 34:1: 20:1: TCH: 50.8
8. MSA FROM: ARP KYKN 3500



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

EQUIPMENT REQUIREMENTS NOTE:

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

NOTES:

CHART NOTE: CIRCLING NA E OF RWY 20 AND NE OF RWY 31.
CHART NOTE: DME FROM YKN DME. DME USE REQUIRES SIMULTANEOUS RECEPTION OF I-YKN AND YKN DME.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 31 CAT C/D VISIBILITY TO 2 1/2 SM AND INCREASE ZIMUK FIX MINIMUMS S-LOC 31 CAT C/D VISIBILITY TO 7/8 SM.

ADDITIONAL FLIGHT DATA:

*DME FROM YKN DME.
HOLD NW, RT, 136.76 INBOUND.
CHART FAS OBST: 1312 TREE (46-023331) 425445N/0972236W.
1500 AAO 424950N/0971849W.
CHART VDP AT 1.22 DME.
DISTANCE VDP TO THLD 0.76 NM.
CHART CIRCLING ICON.

MINIMUMS:

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

ALTERNATE: NA

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>			
	<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
S-ILS 31	1485	1/2	200	1485	1/2	200	1485	1/2	200	1485	1/2	200				
S-LOC 31	2100	1/2	815	2100	3/4	815	2100	1 7/8	815	2100	1 7/8	815				
CIRCLING	2100	1	794	2100	1 1/4	794	2100	2 1/2	794	2100	2 1/2	794				
ZIMUK FIX MINIMUMS*																
S-LOC 31	1560	1/2	275	1560	1/2	275	1560	1/2	275	1560	1/2	275				
CIRCLING	1760	1	454	1780	1	474	1980	2	674	1980	2 1/4	674				



CHANGES - REASONS

1. TERMINAL ROUTES: REMOVED YKN VOR/DME TO YK NDB FEEDER ROUTE, JAKDI/YKN VOR/DME 12.10 DME CW TO UCAVO/YKN VOR/DME 12.10 DME ARC INITIAL, YAPUC/YKN VOR/DME 12.10 DME CCW TO JISMU/YKN VOR/DME 12.10 DME ARC INITIAL, AND JISMU/YKN VOR/DME 12.10 DME CCW TO UCAVO YKN VOR/DME 12.10 DME ARC INITIAL STEPDOWN LEGS - VORMON DECOMMISSIONING YKN VORTAC; PROCEDURE REDESIGN DUE TO DECOMMISSIONING OF CAGUR LOM.
2. TERMINAL ROUTES: CHANGED IF LEG FROM "UCAVO/YKN VOR/DME 12.10 DME - CAGUR LOM/YKN VOR/DME 5.78 DME" TO IF/IAF LEG "HUGAT/YKN DME 13.46 DME" AND DISTANCE FROM "6.32" TO "7.41 (I-YKN)" - VORMON DECOMMISSIONING YKN VORTAC; DME PORTION RETAINED; PROCEDURE REDESIGN DUE TO DECOMMISSIONING OF CAGUR LOM.
3. CHANGED EVERY INSTANCE OF YANKTON VOR/DME FROM "YKN VOR/DME" TO "YKN DME" - VORMON DECOMMISSIONING YKN VORTAC; DME PORTION RETAINED.
4. MISSED APPROACH: CHANGED LOC MAP FROM "5.31 NM AFTER CAGUR LOM/YKN VOR/DME 5.78 DME" TO "YKN DME 6.05 DME" - VORMON DECOMMISSIONING YKN VORTAC; DME PORTION RETAINED; PROCEDURE REDESIGN DUE TO DECOMMISSIONING OF CAGUR LOM.
5. MISSED APPROACH INSTRUCTIONS: CHANGED FROM "CLIMB TO 3500 ON YKN VOR/DME R-316 TO YOTUS/YKN VOR/DME 6.03 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3500" TO "CLIMB TO 3500 DIRECT YOTUS AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3500" - PROCEDURE REDESIGN; VORMON DECOMMISSIONING OF YKN VORTAC; GPS REQUIRED FOR MISSED APPROACH SEGMENT.
6. DELETED ALTERNATE MISSED APPROACH - DECOMMISSIONING OF CAGUR LOM; ALTERNATE NO LONGER REQUIRED.
7. DELETED PROFILE LINE 1 - PT NO LONGER EXISTS.
8. ADDED PROFILE LINE 2: "HOLD SE HUGAT, RT, 316.76 INBOUND, 3500 FT. IN LIEU OF PT (IAF), MAX 6000" - PROCEDURE REDESIGN; HOLD-IN-LIEU ADDED.
9. PROFILE LINE 3: FAF CHANGED FROM "CAGUR LOM/YKN VOR/DME 5.78 DME" TO "WINEL/YKN DME 6.05 DME" AND DIST FAF TO MAP/DIST FAF TO THLD CHANGED FROM "5.31/5.31" TO "5.59/5.59" - VORMON DECOMMISSIONING YKN VORTAC; DME PORTION RETAINED; PROCEDURE REDESIGN DUE TO DECOMMISSIONING OF CAGUR LOM.
10. PROFILE LINE 4: MINIMUM ALTITUDE CHANGED FROM "CAGUR LOM/YKN VOR/DME 5.78 DME 3100, NODPE/YKN VOR/DME 2.08 DME 1780" TO "HUGAT/YKN DME 13.46 DME 3500, WINEL/YKN DME 6.05 DME 3100, ZIMUK/YKN DME 2.97 DME 2100" - VORMON DECOMMISSIONING YKN VORTAC; DME PORTION RETAINED; PROCEDURE REDESIGN DUE TO DECOMMISSIONING OF CAGUR LOM.
11. PROFILE LINE 5: CHANGED DIST TO THLD FROM OM FROM "5.31" TO "5.59" - PROCEDURE REDESIGN DUE TO DECOMMISSIONING OF CAGUR LOM.
12. PROFILE LINE 6: ADDED GS ALT AT FAF "WINEL/YKN DME 6.05 DME 3100" AND DELETED OM "3039" - PROCEDURE REDESIGN DUE TO DECOMMISSIONING OF CAGUR LOM; PFAF AND GS INTERCEPT LOCATIONS NO LONGER NON-COLLOCATED.
13. PROFILE LINE 8: CHANGED MSA FROM "YK NDB 3500" TO "ARP KYKN 3500" - PROCEDURE REDESIGN DUE TO DECOMMISSIONING OF CAGUR LOM.
14. PBN REQUIREMENTS NOTES: ADDED "RNP APCH - GPS" - GPS REQUIRED FOR MISSED APPROACH SEGMENT; IAW 8260.19I PARA 8-6-8.C.2.
15. EQUIPMENT REQUIREMENTS NOTES: AMENDED FROM "ADF OR DME REQUIRED FOR PROCEDURE ENTRY/ADF OR DME REQUIRED FOR LOC ONLY" TO "RADAR REQUIRED FOR PROCEDURE ENTRY/DME REQUIRED FOR LOC ONLY" - IAW 8260.19I PARA 8-6-8.A.2 AND 8-6-8.A.3.
16. UPDATED CHART NOTE FROM "CIRCLING NA E RW20 AND NE RW31" TO "CIRCLING NA E OF RWY 20 AND NE OF RWY 31" - IAW 8260.19I PARA 8-6-11.O.5.C.
17. ADDED CHART NOTE: "FOR INOPERATIVE ALS, INCREASE S-LOC 31 CAT C/D VISIBILITY TO 2 1/2 SM AND INCREASE ZIMUK FIX MINIMUMS S-LOC 31 CAT C/D VISIBILITY TO 7/8 SM" - IAW 8260.19I PARA 8-6-11.O.3.
18. ADDITIONAL FLIGHT DATA: MISSED APPROACH HOLDING CHANGED FROM "HOLD NW, RT, 135.94 INBOUND" TO "HOLD NW, RT, 136.76 INBOUND" - VORMON DECOMMISSIONING YKN VORTAC; PROCEDURE REDESIGN DUE TO DECOMMISSIONING OF CAGUR LOM.
19. ADDITIONAL FLIGHT DATA: DELETED "CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SE YKN NDB, RT, 316.97 INBOUND" - ALTERNATE MISSED APPROACH NO LONGER REQUIRED.
20. ADDITIONAL FLIGHT DATA: ADDED "1500 AAO 424950N/0971849W" - NEW 7:1 EXCLUDED OBSTACLE DOCUMENTED IAW 8260.19I PARA 8-6-10.E.2.
21. ADDITIONAL FLIGHT DATA: DELETED CHART YKN R-057 AT JAKDI, CHART YKN R-242 AT YAPUC, AND CHART YKN R-169 AT JISMU - VORMON DECOMMISSIONING; ARC INITIAL SEGMENTS DELETED.
22. MINIMUMS: INCREASED S-LOC 31 MDA/HAT ALL CATS FROM "1780/495" TO "2100/815" - PROCEDURE REDESIGN DUE TO CAGUR LOM DECOMMISSIONING; RAISED TO MAINTAIN 3.00 DESCENT GRADIENT.
23. MINIMUMS: INCREASED S-LOC 31 CAT B VISIBILITY FROM "1/2" TO "3/4" AND CATS C/D VISIBILITY FROM "1" TO "1 7/8" - APPLICATION OF TABLE 3-3-1 FROM 8260.3E.
24. MINIMUMS: INCREASED S-LOC CIRCLING MDA/HAA CATS A/B FROM "1780/474" TO "2100/794", CATS C/D FROM "1980/674" TO "2100/794" - PROCEDURE REDESIGN DUE TO CAGUR LOM DECOMMISSIONING; STRAIGHT-IN ADJUSTMENT NEEDED.
25. MINIMUMS: INCREASED S-LOC CIRCLING VISIBILITY CAT B FROM "1" TO "1 1/4", CAT C FROM "2" TO "2 1/2" AND CAT D FROM "2 1/4" TO "2 1/2" - APPLICATION OF TABLE 3-3-7 FROM 8260.3E.

COORDINATED WITH:

AAA **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:** ZMP, AMGR

FLIGHT CHECKED BY
PENDING

Digitally signed by
JASON KRETSCHMER
Jan 25, 2023

OFFICE

DATE

DEVELOPED BY
ALLAN WILL (JILL M. SUPPES)

Digitally signed by
JASON KRETSCHMER
Jan 25, 2023

OFFICE
AJV-A423

DATE
11/28/2022

APPROVED BY
ALLAN WILL

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Jan 25, 2023

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TITLE
MANAGER

