

**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> KOTG	<u>PROCEDURE NAME</u> ILS OR LOC RWY 29	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> WORTHINGTON	<u>STATE</u> MN		
<u>AIRPORT ELEVATION</u> 1574	<u>TDZE</u> 1570	<u>SUPERSEDED</u> ILS OR LOC RWY 29	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 12/30/2021	<u>MAG VAR</u> 2E	<u>EPOCH YEAR</u> 2015
<u>FACILITY</u> I-OTG	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 27 JANUARY 2022	<u>REQUIRED EFFECTIVE DATE</u> 01/27/2022	<u>CANCEL/SUSPEND</u>		

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>
ISLER	IAF	CUKMO/OTG 11.99 DME	NOPT	TF	FB	1.00	224.49	6.70	3300
CUKMO/OTG 11.99 DME	IF/IAF	JENTU/OTG 5.83 DME					292.73	6.18 (I-OTG)	3300

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.31 NM AFTER JENTU/OTG 5.83 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2500 THEN CLIMBING RIGHT TURN TO 3300 DIRECT ISLER AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD SE CUKMO, RT, 292.73 INBOUND, 3300 FT. IN LIEU OF PT (IF/IAF), MAX 6000.
- FAC: 292.73 FAF: JENTU/OTG 5.83 DME DIST FAF TO MAP: 5.31 DIST FAF TO THLD: 5.31
- MIN ALT: CUKMO/OTG 11.99 DME 3300, JENTU/OTG 5.83 DME 3300
- DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT: 807
- MIN GS INCPT: 3300 GS ALT AT PFAF: JENTU/OTG 5.83 DME 3300 OM: MM: IM:
- GP ANGLE: 3.00 34:1: 20:1: TCH: 42.5
- MSA FROM: ARP KOTG 3900

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED FOR LOC ONLY.
RNP APCH - GPS.

QUALITY
10
CHECKED

NOTES:

CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 1770.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ISLER ON T348 EASTBOUND.

ADDITIONAL FLIGHT DATA:

HOLD E, RT, 270.46 INBOUND.
FAS OBST: 1733 AAO 433724N/0952934W.
CHART VDP AT 1.79 DME
DISTANCE VDP TO THLD 1.22 NM.
CHART CIRCLING ICON.

MINIMUMS:

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

ALTERNATE: NA ☐ ILS: STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.; LOC: STANDARD - CAT D 800-2 1/2, NA WHEN LOCAL WEATHER NOT AVAILABLE.

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 29	1770	1/2	200	1770	1/2	200	1770	1/2	200	1770	1/2	200			
S-LOC 29	2000	1/2	430	2000	1/2	430	2000	3/4	430	2000	3/4	430			
CIRCLING	2100	1	526	2100	1	526	2100	1 1/2	526	2320	2 1/2	746			



CHANGES - REASONS

1. INCORPORATED CHANGES FROM PREVIOUS P-NOTAMS INTO AMENDMENT 2.
2. REMOVED FEEDER FROM OTG VOR/DME - OTG VOR MON.
3. REMOVED LEVRE/OTG 12.00 DME CW IAF AND ADDED ISLER IAF TO TERMINAL ROUTES - PER FPT.
4. REMOVED PT AT CUKMO AND ADDED HIL AT CUKMO IF/IAF - PER FPT/OTG VOR MON.
5. ADDED CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ISLER ON T348 EASTBOUND - TURNS GREATER THAN 120 DEGREES.
6. REPLACED FAF WONDD LOM WITH FIX JENTU/OTG 5.83 DME, COURSE 292.73/DISTANCE 6.18 - WONDD LOM DECOM/ALIGNED FAF WITH RNAV GPS RWY 29.
7. CHANGED MISSED APPROACH MAP FOR LOC: FROM 4.91 NM AFTER WONDD LOM/OTG 5.43 DME TO 5.31 NM AFTER JENTU/OTG 5.83 DME - WONDD LOM DECOM, JENTU NEW FAF.
8. CHANGED MISSED APPROACH INSTRUCTIONS FROM CLIMB TO 2500 THEN CLIMBING RIGHT TURN TO 3300 DIRECT WONDD LOM/OTG 5.43 DME AND HOLD TO CLIMB TO 2500 THEN CLIMBING RIGHT TURN TO 3300 DIRECT ISLER AND HOLD - WONDD LOM DECOM/ISLER NEW MISSED HOLDING PER FPT.
9. REMOVED PROFILE LINE 1 PT DATA - PT REMOVED FROM PROCEDURE PER FPT.
10. ADDED PROFILE LINE 2 HOLD SE CUKMO, RT, 292.73 INBOUND, 3300 FT. IN LIEU OF PT (IF/IAF), MAX 6000 - HIL REPLACED PT PER FPT.
11. PROFILE LINE 3 DATA CHANGED; FAC FROM 292.74 TO 292.73, FAF FROM WONDD LOM/OTG 5.43 DME TO JENTU/OTG 5.83 - TARGETS EVALUATION RESULTS/JENTU REPLACED WONDD LOM.
12. PROFILE LINE 4 MIN ALT CHANGED FROM WONDD LOM/OTG 5.43 3300 TO CUKMO/OTG 11.99 DME 3300, JENTU/OTG 5.83 DME 3300 - CUKMO HIL ADDED AND JENTU REPLACED WONDD LOM.
13. PROFILE LINE 5 DIST TO THLD FROM OM 4.91 REMOVED - OM DECOM.
14. PROFILE LINE 6 MIN GS INCPT CHANGED FROM OM TO GS ALT AT PFAF: JENTU/OTG 5.83 DME - WONDD LOM DECOM.
15. PROFILE LINE 7 TCH CHANGED FROM 53.0 TO 42.5 - DESIGN TCH OBTAINED FROM AIRNAV.
16. PROFILE LINE 8 MSA CHANGED FROM OT OM 180-360 3900, 360-180 3100 TO ARP KOTG 3900 - OT OM DECOMM, NO OTHER OMNI-DIRECTIONAL NAVAID WITHIN 30 NM IAW 8260.3E 2-3-2B(1).
17. RNP APCH - GPS ADDED TO EQUIPMENT REQUIREMENT NOTES - GPS REQUIRED FROM IAF AND MISSED APPROACH/HOLDING/IAW 8260.19I 8-6-8C(2)(A).
18. ADDED DME REQUIRED FOR LOC ONLY TO EQUIPMENT REQUIREMENTS NOTES - IAW 8260.19I 8-6-8A(2)(C).
19. REMOVED CHART NOTE AND CHART PLANVIEW NOTE: "ADF OR DME REQUIRED" - DME REQUIRED FOR LOC ONLY ADDED TO EQUIPMENT REQUIREMENTS NOTE IAW 8260.19I 8-6-8A(2)(C).
20. REMOVED CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT FROM NOTES - DESIGN TCH OBTAINED FROM AIRNAV OF 42.5/WITHIN 3 FEET IAW 8260.19I 8-6-9M.
21. MOVED BACK-UP ALTIMETER NOTES TO BACK OF -9 - IAW 8260.19I 8-6-9F(3).
22. CHANGED MISSED APPROACH HOLDING DATA IN ADDITIONAL FLIGHT DATA FROM HOLD SE, RT, 292.74 INBOUND TO HOLD E, RT, 270.46 INBOUND - MISSED APPROACH CHANGED FROM WONDD LOM TO FIX ISLER.
23. FAS OBST CHANGED FROM 1740 AAO 433706N/0952939W TO 1733 AAO 433724N/0952934W - NEW OBSTACLE EVALUATION RESULTS.
24. REMOVED CHART OTG R-014 AT LEVRE FROM ADDITIONAL FLIGHT DATA - IAF LEVRE REMOVED PER FPT.
25. ADDED CHART VDP AT 1.79 DME AND DISTANCE VDP TO THLD 1.22 NM TO ADDITIONAL FLIGHT DATA - FINAL HAS DME.
26. ADDED NA WHEN LOCAL WEATHER NOT AVAILABLE TO ALTERNATE MINS - IAW 8260.19I ATTACHMENT 4(5)(B).
27. UPDATED DME FROM CUKMO TO OTG FROM 12.00 TO 11.99 - TARGETS EVALUATION RESULTS.
28. ADDED CHART CIRCLING ICON TO ADDITIONAL FLIGHT DATA - IAW 8260.19I 8-6-10S.
29. TERMINAL ROUTES ISLER TO CUKMO/OTG 11.99 DME; COURSE CHANGED FROM 261.66 TO 224.49, REMOVED OTG RADIAL 082 FROM DIST - OTG VOR DECOM 3-24-2022, TF LEG GPS REQUIRED.

12/20/2021: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 10/25/21.
CHANGED REQUIRED EFFECTIVE DATE FROM ROUTINE TO 01/27/2022.

COORDINATED WITH:

AAA ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HA1** ☐ **NBAA** ☒ **OTHER:** ZMP ARTCC, AMGR

Digitally signed by

FLIGHT CHECKED BY
PENDING

DONALD H LANIER

Digitally signed by

Dec 20, 2021

RICHARD E CHRISTENSE

Oct 25, 2021

OFFICE
FICO

DATE

DEVELOPED BY
RICHARD CHRISTENSEN

OFFICE
AJV-A431

DATE
09/29/2021

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APPROVED BY
LONNIE EVERHART

DONALD H LANIER

Dec 20, 2021

OFFICE
AJV-A430

DATE

TITLE
MANAGER

QUALITY
10
CHECKED