

**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>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>		
ILN	ILS OR LOC RWY 4L	5	WILMINGTON	OH		
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
1077	1057	ILS OR LOC RWY 4L	4E	06/17/2021	7W	2025
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
I-HWM		16 MAY 2024	ROUTINE			

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>
FLM VOR/DME	IAF	RHYNO		TF	FB	1.00	026.24	36.06	4000
RHYNO	IF	KNITE		TF	FB	1.00	044.31	7.19	3000
KNITE		CUBLA LOM		TF	FB	1.00	044.31	3.85	2800

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.02 NM AFTER CUBLA LOM

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT WIZRD AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)		
2.	PROFILE STARTS AT RHYNO							
3.	FAC:	044.31	FAF:	CUBLA LOM	DIST FAF TO MAP:	5.02	DIST FAF TO THLD:	5.02
4.	MIN ALT: RHYNO 4000, KNITE 3000, CUBLA LOM 2800							
5.	DIST TO THLD FROM OM:	5.02	MM:	IM:	150 HAT:	GS ANT:	899	
6.	MIN GS INCPT:	2800	GS ALT AT FAF:		OM:	2701	MM:	IM:
7.	GS ANGLE:	3.00	34:1:	20:1:	TCH:	49.5		
8.	MSA FROM: CUBLA LOM 003-273 2600, 273-003 3100							



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.

CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 4L CATS C AND D VISIBILITY TO 1 3/8 SM.

ADDITIONAL FLIGHT DATA:

CHART LOC RWY 4R.

CHART BUCKEYE MOA.

CHART BRUSH CREEK MOA.

HOLD NE, RT, 224.40 INBOUND.

FAS OBST: 1270 AAO 392203N/0835053W.

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 C 800-2 1/4, 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 04L	1257	2400	200	1257	2400	200	1257	2400	200	1257	2400	200			
S-LOC 04L	1520	2400	463	1520	2400	463	1520	5000	463	1520	5000	463			
CIRCLING	1560	1	483	1560	1	483	1860	2 1/4	783	1860	2 1/2	783			

CHANGES - REASONS

1. TERMINAL ROUTES: REMOVED INITIAL LEG CVG VORTAC TO RHYNO – CVG VOR MON.
2. TERMINAL ROUTES: UPDATED FLM VOR/DME TO RHYNO/RADAR COURSE FROM "026.25" TO "026.24", ALTITUDE FROM "4000" TO "2800" – NEW EVALUATION UPDATED COURSE, ALTITUDE UPDATED PER ATC.
3. TERMINAL ROUTES: UPDATED RHYNO/RADAR TO KNITE/RADAR COURSE FROM "044.30" TO "044.31", ALTITUDE FROM "4000" TO "2800" – NEW EVALUATION UPDATED COURSE, ALTITUDE UPDATED PER ATC.
4. TERMINAL ROUTES: UPDATED KNITE/RADAR TO CUBLA LOM/RADAR COURSE FROM "044.30" TO "044.31", DISTANCE FROM "3.87" TO "3.85" – RELOCATED CUBLA LOM TO ALIGN ABEAM NAVAID.
5. TERMINAL ROUTES AND PROFILE LINE 4: REMOVED "" IN REFERENCE TO ADDITIONAL ALTITUDE NOTE - NO LONGER SUPPORTED BY CRITERIA.
6. MISSED APPROACH INSTRUCTIONS: CHANGED FROM "CLIMB TO 1600 THEN CLIMBING LEFT TURN TO 4000 ON MXQ VOR/DME R-030 TO BUNSS/MXQ 10.00 DME AND HOLD" TO "CLIMB TO 3000 DIRECT WIZRD AND HOLD" – MXQ NAVAID RESTRICTION.
7. PROFILE LINE 2: CHANGED FROM "PROFILE STARTS AT RHYNO" TO "PROFILE STARTS AT RHYNO/RADAR" – IAW 8260.19I PAR 8-6-7B.(3)(A).
8. PROFILE LINE 3: CHANGED FAC FROM "044.30" TO "044.31" – NEW EVALUATION.
9. PROFILE LINE 4: CHANGED FROM "RHYNO/RADAR 4000", KNITE/RADAR 4000, CUBLA LOM/RADAR 2800" TO "RHYNO/RADAR 2800, KNITE/RADAR 2800, CUBLA LOM/RADAR 2800" - RHYNO AND KNITE ALTITUDES UPDATED PER ATC.
10. PROFILE LINE 5: REMOVED MM DISTANCE OF "0.42" - MIDDLE MARKER WAS PREVIOUSLY REMOVED FROM USE.
11. PROFILE LINE 5: UPDATED GS ANT FROM "900" TO "899" – AIRNAV DATA.
12. PROFILE LINE 6: CHANGED OM ALTITUDE FROM "2725" TO "2701" – UPDATED FAF LOCATION.
13. PROFILE LINE 6: REMOVED MM ALTITUDE OF "1241" – MIDDLE MARKER WAS PREVIOUSLY REMOVED FROM USE.
14. PROFILE LINE 7: CHANGED TCH FROM "51.0" TO "49.5" – UPDATED AIRNAV DATA, 49.5 IS THE DESIGN TCH.
15. PROFILE LINE 8: CHANGED MSA HW NDB 003-273 FROM "2700" TO "2600" – UPDATED OBSTACLE EVALUATION.
16. EQUIPMENT REQUIREMENTS NOTES: REMOVED "DME REQUIRED" – CONVENTIONAL MISSED APPROACH REMOVED.
17. PBN REQUIREMENTS: ADDED "RNP APCH - GPS" – IAW 8260.19I PAR 8-6-8C(2)(A), MISSED APPROACH REDESIGN PER FPT.
18. NOTES: UPDATED CHART NOTE FROM "FOR INOPERATIVE ALS, INCREASE S-LOC 4L CATS A/B VISIBILITY TO RVR 5500 AND CATS C/D VISIBILITY TO RVR 6000" TO "FOR INOPERATIVE ALS, INCREASE S-LOC 4L CATS C AND D VISIBILITY TO 1 3/8 SM" – PER UPDATED 8260.3E VIS TABLES.
19. NOTES: REMOVED "CHART PROFILE NOTE: "2800 WHEN AUTHORIZED BY ATC." - NO LONGER SUPPORTED BY CRITERIA.
20. ADDITIONAL FLIGHT DATA: CHANGED FROM "DEPICT LOC RWY 4R" TO "CHART LOC RWY 4R" - UPDATED FORMAT IAW 8260.19I 8-6-10.
21. ADDITIONAL FLIGHT DATA: ADDED "CHART BUCKEYE MOA" AND "CHART BRUSH CREEK MOA" - IAW 82650.19I, 8-6-10.I.
22. ADDITIONAL FLIGHT DATA: CHANGED "HOLD NE, RT, 210.00 INBOUND" TO "HOLD NE, RT, 224.40 INBOUND" – MISSED APPROACH CLEARANCE LIMIT HOLDING MOVED FROM BUNSS TO WIZRD.
23. ADDITIONAL FLIGHT DATA: UPDATED FAS OBSTACLE FROM "1201 TREES 392341N/0834919W" TO "1270 AAO 392203N/0835053W" – UPDATED OBSTACLE EVALUATION.
24. ADDITIONAL FLIGHT DATA: REMOVED "CHART 1473 TOWER 392904N/0834801W" – NO 7:1 EXCLUDED OBSTACLES IN NEW EVALUATION.
25. MINIMUMS: INCREASED S-LOC 4L MDA/HAT CHANGED FOR ALL CATS FROM "1460/403" TO "1520/463" – UPDATED OBSTACLE EVALUATION.
26. MINIMUMS: INCREASED S-LOC 4L VISIBILITIES CATS C AND D FROM "RVR 4000" TO "RVR 5000" - UPDATED MINIMUMS AND IAW 8260.3E TABLE 3-3-1.
27. MINIMUMS: INCREASED CIRCLING CATS A AND B MDA/HAA FROM "1540/463" TO "1560/483" – UPDATED OBSTACLE EVALUATION, INCORPORATE T-NOTAM 2/7043.
28. ALTERNATE MINIMUMS: REMOVED FOR ILS, LOC: "NA WHEN CONTROL TOWER CLOSED" – TOWER IS NOW FULL TIME, IAW 8260.19I, 8-6-11.B(4).

02/13/24: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 09/18/23.

1. TERMINAL ROUTES: UPDATED RHYNO AND KNITE FROM RADAR FIXES TO WAYPOINTS - PROCEDURE NOW REQUIRING RNAV GPS.
2. TERMINAL ROUTES: UPDATED MINIMUM ALTITUDE ON LEG FLM TO RHYNO FROM "2800" TO "4000" - ATC REQUEST.
3. TERMINAL ROUTES: REMOVED, "(I-HWM)" REFERENCES UNDER THE DISTANCE COLUMN - RNAV ONLY SEGMENTS.
4. TERMINAL ROUTES: UPDATED MINIMUM ALTITUDE ON LEG RHYNO TO KNITE FROM "2800" TO "3000" - ATC REQUEST.
5. TERMINAL ROUTES/PROFILE: REMOVED "RADAR" FROM ALL CUBLA LOM REFERENCES - PROCEDURE REQUIRES RNAV GPS.
6. PROFILE LINE 2: UPDATED FROM "PROFILE STARTS AT RHYNO/RADAR" TO "PROFILE STARTS AT RHYNO" - RHYNO UPDATED TO WAYPOINT.
7. PROFILE LINE 4: REMOVED RADAR FROM RHYNO AND KNITE - RHYNO AND KNITE UPDATED TO WAYPOINTS.
8. PROFILE LINE 8: REMOVED, "HW NDB" AND ADDED, "CUBLA LOM" - IAW 8260.19I IMPLEMENTATION LETTER ATTACHMENT 4, 6 STATES TO USE THE LOM FIVE-LETTER NAME.
9. EQUIPMENT REQUIREMENTS NOTES: REMOVED, "RADAR REQUIRED TO DEFINE RHYNO AND KNITE" - RHYNO AND KNITE UPDATED TO WAYPOINTS.
10. NOTES: REMOVED CHART NOTE "RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA" - LOC I-HWM HAS RESTRICTIONS AND NO APPROVAL PROVIDED TO RETAIN NOTE, IAW 8400.13F CHAPTER 2 SECTION 2(A).

COORDINATED WITH:

A4A

☒

ALPA

☒

AOPA

☒

APA

☐

HAI

☐

NBAA

☒

OTHER:

ZID, DAY ATCT, ILN ATCT, AMGR

FLIGHT CHECKED BY

DAVIN O'BRIEN

Digitally signed by
DAVID DANNER
Apr 01, 2024

OFFICE

FIOG

DATE

03/27/2024

DEVELOPED BY

DAVID DANNER (RONALD K. STROBACH)

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Apr 01, 2024

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DATE

09/18/2023

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03/21/2024

TITLE

MANAGER

