

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> OTH	<u>PROCEDURE NAME</u> ILS Z OR LOC Z RWY 5	<u>ORIGINAL/AMENDMENT</u> 9	<u>CITY</u> NORTH BEND	<u>STATE</u> OR
<u>AIRPORT ELEVATION</u> 17	<u>TDZE</u> 16	<u>SUPERSEDED</u> ILS OR LOC RWY 5	<u>ORIGINAL/AMENDMENT</u> 8A	<u>DATED</u> 03/26/2020
<u>FACILITY</u> I-OTH	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 31 OCTOBER 2024	<u>REQUIRED EFFECTIVE DATE</u> 10/31/2024	<u>MAG VAR</u> 15E <u>EPOCH YEAR</u> 2020 <u>CANCEL/SUSPEND</u>

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
OTH VOR/DME		MITUE/I-OTH 13.39 DME					232.65	16.00	3000
RARES/OTH R-008/16.00 DME CCW	IAF	MITUE/I-OTH 13.39 DME	NOPT				16.00 DME ARC (LR-240)		2600
LUPCI/OTH R-167/16.00 DME CW	IAF	MITUE/I-OTH 13.39 DME	NOPT				16.00 DME ARC (LR-225)		2500
MITUE/I-OTH 13.39 DME	IF/IAF	OXVAK/I-OTH 4.91 DME					045.67 (I-OTH)	8.47	1300

MISSED APPROACH

MAP:

ILS: DA
LOC: I-OTH 1.04 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 500 THEN CLIMBING LEFT TURN TO 2600 ON HEADING 340 AND OTH VOR/DME R-301 TO YICBU/OTH 7.98 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 2600.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. HOLD SW MITUE/I-OTH 13.39 DME, RT, 045.67 INBOUND, 1600 FT. IN LIEU OF PT (IAF), MAX 4500.					
3. FAC: 045.67	FAF: OXVAK/I-OTH 4.91 DME	DIST FAF TO MAP:		DIST FAF TO THLD:	3.87
4. MIN ALT: MITUE/I-OTH 13.39 DME 1600, OXVAK/I-OTH 4.91 DME 1300, EMIRE/I-OTH 3.66 DME 900					
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	GS ANT:	1001
6. MIN GS INCPT: 1300	GS ALT AT PFAF: OXVAK/I-OTH 4.91 DME 1300			OM:	MM:
7. GS ANGLE: 3.00	34:1:	20:1:	TCH: 50.7		IM:
8. MSA FROM: OTH VOR/DME 083-193 4500, 193-353 2800, 353-083 3900					



EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART PROFILE NOTE: USE I-OTH DME WHEN ON THE LOCALIZER COURSE.
CHART NOTE: CIRCLING RWY 13, 31 NA AT NIGHT.

ADDITIONAL FLIGHT DATA:

CHART SEATTLE CENTER FREQUENCY.
CHART IN PLANVIEW AND PROFILE VIEW: OTH 15.98 DME AT MITUE.

HOLD NW, RT, 121.00 INBOUND.
FAS OBST: 144 SHIP 432422N/1241642W.
CHART W-93 NORTH.
CHART VDP AT 2.09 DME.
DISTANCE VDP TO THLD 1.04 NM.
CHART OTH R-008 AT RARES.
CHART OTH R-167 AT LUPCI.
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 B 900-2, CAT C 1100-3, CAT D 1200-3, 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 05	216	1/2	200	216	1/2	200	216	1/2	200	216	1/2	200			
S-LOC 05	400	1/2	384	400	1/2	384	400	5/8	384	400	5/8	384			
CIRCLING	680	1	663	820	1	803	1080	3	1063	1160	3	1143			



CHANGES - REASONS

1. PROCEDURE NAME CHANGED FROM ILS OR LOC RWY 5 TO ILS Z OR LOC Z RWY 5. – SUFFIX REQUIRED DUE TO MORE THAN ONE PROCEDURE TO RWY 5 SHARING THE SAME FINAL LATERAL NAVAID IAW FAAO 8260.3E PARA 1-6-2.D.
2. REMOVED ALL REFERENCES TO EMIRE NDB (OTH NDB). – OTH NDB BEING DECOMMISSIONED AND I-OTH DME BEING COMMISSIONED.
3. TERMINAL ROUTES, CHANGED ALL FIX MITUE DME REFERENCES FROM "OTH 16.00 DME" TO "I-OTH 13.39 DME". – I-OTH DME ADDED AND USED ON INTERMEDIATE SEGMENT INBOUND ON LOCALIZER.
4. TERMINAL ROUTES, DELETED FEEDER SEGMENT OTH VOR/DME TO OTH NDB (FAF/IAF) AND ADDED FEEDER SEGMENT FROM OTH VOR/DME TO MITUE/I-OTH 13.39 DME. – OTH NDB (EMIRE) IS BEING DECOMMISSIONED AND PROCEDURE REDSIGNED WITH FEEDER SEGMENT TO HILPT AT MITUE/I-OTH 13.39 DME.
5. TERMINAL ROUTES, INITIAL ARCS, ADDED RADIALS TO FIX DESCRIPTIONS FOR FIX RARES/OTH R-008/16.00 DME CCW AND FIX LUPCI/OTH R-167/16.00 DME CCW. – RADIAL REQUIRED FOR DEFINING BEGINNING OF AN ARC INITIAL SEGMENT AND CHARTING REQUIRED IAW FAAO 8260.3E PARA 8-6-11.R.
6. TERMINAL ROUTES, ARC SEGMENT FROM LUPCI/OTH R-167/16.00 DME CW, RAISED SEGMENT ALTITUDE FROM 2400 TO 2500. – MINIMUM AIRSPACE BASED ON UPDATED TERRAIN DATABASE.
7. TERMINAL ROUTES, INTERMEDIATE SEGMENT, FROM MITUE/I-OTH 13.39 DME, CHANGED FIX TYPE FROM "IF" TO "IF/IAF", DELETED STEPDOWN FIX LEAST/OTH 8.75 DME, REPLACED EMIRE NDB WITH NEW PFAF OXVAK/I-OTH 4.91 DME, UPDATED SEGMENT COURSE FROM 045.66 TO 045.67, ADDED NEW DISTANCE 8.47 AND ALTITUDE 1300 TO OXVAK/I-OTH 4.91 DME, AND MOVED "(I-OTH)" FROM DISTANCE TO COURSE COLUMN. – FIX MITUE/I-OTH 13.39 DME IS NOW AN IAF FOR THE HILPT, EMIRE NDB BEING DECOMMISSIONED, ADDED DME FIX TYPE TO FIX OXVAK AS NEW PFAF, MADE ILS/LOC PFAF COINCIDENT WITH RNAV IAP PFAFS TO RWY 05, AND NAVAID PROVIDING COURSE GUIDANCE BLOCK CHANGED FOR UPDATED FORMS.
8. MISSED APPROACH POINT LOCALIZER CHANGED FROM "2.49 MM AFTER EMIRE NDB" TO "I-OTH 1.04 DME". – DME ADDED TO I-OTH FACILITY AND DME REQUIRED FOR PROCEDURE; TIMING NOT REQUIRED ANYMORE TO DEFINE MAP.
9. CHANGED MISSED APPROACH INSTRUCTIONS FROM "CLIMB TO 600 THEN CLIMBING LEFT TURN TO 2300 DIRECT OTH NDB AND HOLD, CONTINUE CLIMB-IN-HOLD TO 2300" TO "CLIMB TO 500 THEN CLIMBING LEFT TURN TO 2600 ON HEADING 340 AND OTH VOR/DME R-301 TO YICBU/OTH 7.98 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 2600". – REDESIGN MISSED APPROACH FOR OTH NDB DECOMMISSIONING.
10. ALTERNATE MISSED APPROACH DELETED. – NO ADDITIONAL NAVAIDS IN VICINITY.
11. PROFILE LINE 1, DELETED PROCEDURE TURN AND ASSOCIATED DATA. – PROCEDURE TURN REPLACED WITH HILPT AT FIX MITUE/I-OTH 13.39 DME.
12. PROFILE LINE 2, ADDED HILPT AT FIX MITUE/I-OTH 13.39 DME AND ASSOCIATED DATA. – APPROACH REDESIGN WITH I-OTH DME ADDED.
13. PROFILE LINE 3, CHANGED FAC FROM 045.66 TO 045.67, CHANGED FAF FROM EMIRE NDB TO OXVAK/I-OTH 4.91 DME, DELETED DIST FAF TO MAP AND INCREASED DIST FAF TO THLD FROM 2.49 TO 3.87. – UPDATED FAC ROUNDING OF 045.666; FAF LOCATION CHANGED FOR PROCEDURE REDESIGN; DIST FAF TO MAP TIMING NO LONGER AUTHORIZED; UPDATED FAF TO THLD LENGTH WITH NEW FAF.
14. PROFILE LINE 4, REPLACED ALL DATA WITH MITUE/I-OTH 13.39 DME 1600, OXVAK/I-OTH 4.91 DME 1300, EMIRE/I-OTH 3.66 DME 900. – PROCEDURE REDESIGN AND FINAL STEPDOWN FIX EMIRE/I-OTH 3.66 DME ADDED.
15. PROFILE LINE 6, INCREASED MIN GS INCPT FROM 900 TO 1300 AND CHANGED FROM "GS ALT AT FAF: 865" TO "GS ALT AT PFAF: OXVAK/I-OTH 4.91 DME 1300". – PFAF ALT INCREASED AND COLLOCATED ILS/LOC PFAF AT A DME FIX.
16. PROFILE LINE 7, CHANGED VERBIAGE FROM "GP ANGLE" TO "GS ANGLE". – UPDATED FORMS.
17. PROFILE LINE 8, MSA CHANGED FROM OTH NDB AND ASSOCIATED SECTORS TO OTH VOR/DME AND ASSOCIATED SECTORS. – OTH NDB BEING DECOMMISSIONED.
18. EQUIPMENT REQUIREMENTS NOTES, DELETED ADF. – EMIRE NDB REMOVED FROM PROCEDURE FOR DECOMMISSIONING.
19. NOTES, DELETED CHART NOTE "MISSED APPROACH REQUIRES MINIMUM CLIMB OF 248 FEET PER NM TO 800". – NO LONGER REQUIRED; MISSED APPROACH CLIMB-TO ALTITUDE LOWERED FROM 600 FT TO 500 FT BEFORE TURNING AND PENETRATING OBSTACLE IS NO LONGER A FACTOR.
20. NOTES, DELETED CHART NOTE INOPERATIVE ALS VISIBILITY INCREASES. – INOPERATIVE ALS VISIBILITY INCREASES NOW STANDARD; PROCEDURE DELETED S-ILS 262 HAT MINIMA AND S-ILS VISIBILITY NOW BASED 200 HAT, AND S-LOC CATS C/D FALS VISIBILITY REDUCED FROM 3/4 SM TO 5/8 SM DUE TO FINAL APPROACH SEGMENT DISTANCE INCREASED GREATER THAN 3.0 NM IAW FAAO 8260.3E PARA 3-3-2.
21. NOTES, ADDED CHART PROFILE NOTE "USE I-OTH DME WHEN ON THE LOCALIZER COURSE." – REQUIRED FOR 2 DME SOURCES FORWARD OF THE LOC COURSE IAW FAAO 8260.18 PARA 8-2-5.F.(3).
22. ADDITIONAL FLIGHT DATA, ADDED "CHART SEATTLE CENTER FREQUENCY". – REQUIRED WHEN CENTER PROVIDES APPROACH CONTROL SERVICES IAW FAAO 8260.19J PARA 8-2-4.B.(1).
23. ADDITIONAL FLIGHT DATA, ADDED "CHART IN PLANVIEW AND PROFILE VIEW: OTH 15.98 DME AT MITUE". – MITUE/OTH 15.98 DME IS DEFINED BY OTH VOR/DME ON THE ARC AND I-OTH DME ON LOCALIZER COURSE.
24. ADDITIONAL FLIGHT DATA, CHANGED HOLDING FROM "HOLD SW, LT, 045.66 INBOUND" TO "HOLD NW, RT, 121.00 INBOUND". – MISSED APPROACH HOLDING LOCATION AND PATTERN CHANGED.
25. ADDITIONAL FLIGHT DATA, DELETED "CHART IN PLANVIEW: EMIRE NDB/OTH VOR/DME 6.33 DME". – OTH NDB BEING DECOMMISSIONED AND DME FIX EMIRE ESTABLISHED.
26. ADDITIONAL FLIGHT DATA, FAS OBSTACLE ELEVATION INCREASED FROM 140 TO 144 AND DELETED "CHART". – SHIP HEIGHT INCREASED PER FPT AND MATCHES OTHER IAPS AT KOTH AND NOAA NAUTICAL CHARTS, AND SHIP IS A TRANSITORY AAO AND NOT CHARTED IAW FAAO 8260.19I PARA 6-6-11.C.
27. ADDITIONAL FLIGHT DATA, ADDED "CHART W-93 NORTH" – SPECIAL USE AIRSPACE CHARTING REQUIRED IAW FAAO 8260.19J PARA 8-6-11.I.
28. ADDITIONAL FLIGHT DATA, DELETED "CHART IN PLANVIEW: YICBU/OTH 8.00 DME" AND "CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NW YICBU/OTH 8.00 DME, RT, 121.00 INBOUND". – ALTERNATE MISSED APPROACH DELETED FROM PROCEDURE.
29. ADDITIONAL FLIGHT DATA, ADDED "CHART VDP AT 2.09 DME" AND "DISTANCE VDP TO THLD 1.04 NM". – DME ADDED TO I-OTH.
30. ALTERNATE MINIMUMS, ADDED "NA WHEN LOCAL WEATHER NOT AVAILABLE" TO ILS AND LOC, AND ADDED TO LOC: CAT C 900-2, CAT D 1200-3. – NO BACKUP ALTIMETER AND CONDITION NOTE REQUIRED FAA 8260.19J PARA 8-6-12.B.(4), AND CIRCLING CATS C/D ADDED BACK TO PROCEDURE WITH RAISING PFAF ALTITUDE TO ABOVE THE CATS C/D CMDA.
31. MINIMUMS, DELETED "MISSED APPROACH REQUIRES MINIMUM CLIMB OF 248 FEET PER NM TO 800" FROM S-ILS 05 WITH 216 DA/200 HAT. – MISSED APPROACH CLIMB-TO ALTITUDE LOWERED FROM 600 FT TO 500 FT BEFORE TURNING AND PENETRATING OBSTACLE IS NO LONGER A FACTOR.
32. MINIMUMS, DELETED S-ILS 05 WITH 278 DA/262 HAT. – NO LONGER REQUIRED.
33. MINIMUMS, LOWERED S-LOC 05 CATS C/D VISIBILITY FROM 3/4 TO 5/8. – FINAL SEGMENT IS NOW GREATER THAN 3 NM AND FAAO 8260.3E TABLE 3-3-5 MINIMUM REQUIRED VISIBILITY CHANGED FROM 3/4 SM TO 1/2 SM.
34. MINIMUMS, ADDED CIRCLING CATS C/D. – PFAF ALTITUDE INCREASED FROM 900 TO 1300 AND IS NOW HIGHER THAN THE CATS C/D CMDA.



COORDINATED WITH:

A4A

☐

ALPA

☒

AOPA

☒

APA

☐

HAI

☐

NBAA

☒

OTHER: ZSE, OTH ATCT, AMGR

FLIGHT CHECKED BY PENDING	Digitally signed by ERIC N SUSKI Jul 25, 2024	OFFICE FPO	DATE	
DEVELOPED BY MICHAEL MCCARTNEY	Digitally signed by MICHAEL A MCCARTNEY Jul 18, 2024	OFFICE AJV-A431	DATE 06/28/2024	
APPROVED BY ERIC N SUSKI	Digitally signed by ERIC N SUSKI Jul 25, 2024	OFFICE AJV-A431	DATE	TITLE MANAGER

