

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> KTN/PAKT	<u>PROCEDURE NAME</u> ILS Z OR LOC Z RWY 11	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> KETCHIKAN	<u>STATE</u> AK
<u>AIRPORT ELEVATION</u> 92	<u>TDZE</u> 92	<u>SUPERSEDED</u> ILS Z OR LOC Z RWY 11	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 11/10/2016
<u>FACILITY</u> I-ECH	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 31 OCTOBER 2024	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 21E
				<u>EPOCH YEAR</u> 2010
				<u>CANCEL/SUSPEND</u>

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ANN VOR/DME	IAF	BUBBL		TF	FB	1.00	301.09	13.00	5000
BUBBL	IF	MUSUE		TF	FB	1.00	300.90	13.04	5000
MUSUE		PUTIY		RF	FB	1.00	(3.10 NM RADIUS CW (CFMBP))	9.39	3000
PUTIY		WETOL/I-ECH 8.39 DME	PFAF	TF	FB	1.00	114.59 (I-ECH)	2.11	2400

MISSED APPROACH

MAP:

ILS: DA
LOC: I-ECH /1.40 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5100 DIRECT CMJ NDB AND ON CMJ NDB BRG 124 TO UCARU/I-ECH 6.58 DME AND ON ANN VOR/DME R-338 TO ANN VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5100.
*MISSED APPROACH REQUIRES MINIMUM CLIMB OF 305 FEET PER NM TO 4000; IF UNABLE TO MEET CLIMB GRADIENT, SEE LOC X RWY 11.
MISSED APPROACH REQUIRES MINIMUM CLIMB OF 235 FEET PER NM TO 4000; IF UNABLE TO MEET CLIMB GRADIENT, SEE LOC X RWY 11.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2.	PROFILE STARTS AT PUTIY				
3. FAC:	114.59	FAF: WETOL/I-ECH 8.39 DME	DIST FAF TO MAP:	DIST FAF TO THLD:	6.99
4. MIN ALT:	PUTIY 3000, WETOL/I-ECH 8.39 DME 2400, OYECU/I-ECH 4.80 DME 1200				
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	GS ANT:	914
6. MIN GS INCPT:	2400	GS ALT AT PFAF: WETOL/I-ECH 8.39 DME 2400	OM:	MM:	IM:
7. GS ANGLE:	3.05	34:1:	20:1:	TCH:	50.4
8. MSA FROM:	CMJ NDB 5800				



PBN REQUIREMENTS NOTE:

RNP APCH - GPS, RF.

EQUIPMENT REQUIREMENTS NOTES:

ADF REQUIRED.
DME REQUIRED.

NOTES:

CHART NOTE: * RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON ANN VOR/DME AIRWAY RADIALS 280 CW 309.
CHART NOTE: RWY 11 HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NOT AUTHORIZED.
CHART PROFILE NOTE: USE I-ECH DME WHEN ON THE LOCALIZER COURSE.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE *S-ILS 11 VISIBILITY TO RVR 6000.
CHART SPEED ICON IN PLANVIEW AT MUSUE: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 128.54 INBOUND.
CHART FAS OBST: 647 TREE (02-024418) 552305N/1314650W.
CHART VDP AT 4.04 DME.
DISTANCE VDP TO THLD 2.63 NM.

MINIMUMS:

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

ALTERNATE: NA ☐ ILS: STANDARD; LOC: CAT A, B, C, D 900-2, 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 11*	312	2400	220	312	2400	220	312	2400	220	312	2400	220			
S-LOC 11	980	4000	888	980	4000	888	980	2	888	980	2	888			



CHANGES - REASONS

1. TERMINAL ROUTES: CHANGED FROM ANN VOR/DME TO MUSUE TO ANN VOR/DME TO BUBBL AND UPDATED ASSOCIATIONS AND ADDED BUBBL TO MUSUE – NEW FIX BUBBL ADDED 13 NM FROM ANN VOR/DME FOR ATC SEQUENCING.
2. TERMINAL ROUTES MUSUE TO PUTIY COURSE/DISTANCE: REPLACED FIX (CFCFB) WITH (CFMBP) – NEW EVALUATION.
3. MISSED APPROACH INSTRUCTIONS: MISSED APPROACH INSTRUCTIONS: CHANGED FROM CLIMB TO 5000 DIRECT CMJ NDB AND ON CMJ NDB BRG 124 TO UCARU/I-ECH 6.58 DME AND ON ANN VOR/DME R-338 TO ANN VOR/DME AND HOLD, OR AS DIRECTED BY ATC. **S-ILS 11 MISSED APPROACH REQUIRES MINIMUM CLIMB OF 305 FEET PER NM TO 4000. S-LOC 11 MISSED APPROACH REQUIRES MINIMUM CLIMB OF 235 FEET PER NM TO 4000 TO CLIMB TO 5100 DIRECT CMJ NDB AND ON CMJ NDB BRG 124 TO UCARU/I-ECH 6.58 DME AND ON ANN VOR/DME R-338 TO ANN VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5100. *MISSED APPROACH REQUIRES MINIMUM CLIMB OF 305 FEET PER NM TO 4000; IF UNABLE TO MEET CLIMB GRADIENT, SEE LOC X RWY 11. MISSED APPROACH REQUIRES MINIMUM CLIMB OF 235 FEET PER NM TO 4000; IF UNABLE TO MEET CLIMB GRADIENT, SEE LOC X RWY 11 - 8260.19J 8-6-6(F)1 AND NEW EVALUATION.
4. REMOVED ALTERNATE MISSED APPROACH INSTRUCTIONS AND REMOVED ASSOCIATED PLANVIEW HOLDING FROM ADDITIONAL FLIGHT DATA – ICK NDB DECOMMISSIONING.
5. PROFILE LINE 2: CHANGED FROM PROFILE STARTS AT MUSUE TO PROFILE STARTS AT PUTIY – UPDATED CHARTING FORMAT.
6. PROFILE LINE 4: REMOVED FIX MUSUE 5000 – UPDATED CHARTING FORMAT.
7. PROFILE LINE 6: CHANGED GS ALT AT PFAF FROM WETOL 2400 TO WETOL/I-ECH 8.39 DME 2400 – 8-6-7(F).
8. PROFILE LINE 7: GS ANGLE CHANGED FROM 3.00 TO 3.05 – NEW EVALUATION.
9. NOTES: CHANGED CHART NOTE FROM CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 11 CATS C AND D VISIBILITY TO 2 1/2 TO CHART NOTE: FOR INOPERATIVE ALS, INCREASE *S-ILS 11 VISIBILITY TO RVR 6000 – 8260.19J 8-6-12(O)3(D).
10. MOVED CHART NOTES RF, GPS, DME AND ADF REQUIRED TO PBN REQUIREMENTS NOTE AND EQUIPMENT REQUIREMENTS NOTE AND CHANGED GPS AND RF TO RNP APCH – GPS, RF – 8260.19J 8-6-8(A).
11. CHANGED CHART PLANVIEW NOTE FROM PROCEDURE NA FOR ARRIVAL ON ANN VOR/DME AIRWAY RADIALS 290 CW 309 TO PROCEDURE NA FOR ARRIVAL ON ANN VOR/DME AIRWAY RADIALS 280 CW 309 – 8260.19J 8-2-5(G)2.
12. ADDITIONAL FLIGHT DATA: REMOVED “LOC ONLY” AND ASSOCIATED ASTERISK FROM VDP NOTE AND STEPDOWN FIX ALTITUDE ON PROFILE LINE 4 – 8260.19J NO LONGER REQUIRED BY CRITERIA.
13. ADDITIONAL FLIGHT DATA CHART FAS OBST: CHANGED FROM CHART FAS OBST: 647 TREE (02-024418) 552305N/1314650W TO CHART FAS OBST: 647 TREE 552305N/1314650W – OBSTACLE OAS NUMBER UPDATED.
14. ADDED CHART NOTE: RWY 11 HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NOT AUTHORIZED – 8260.19J 8-6-12(K)2, 34:1 PENETRATIONS.
15. ALTERNATE MINIMUMS: CHANGED FROM ILS: STANDARD; LOC: CAT C, D 800-2 1/2 TO ILS: STANDARD; LOC: CAT A, B 900-2, CAT C, D 900-2 1/2 - NA WHEN LOCAL WEATHER NOT AVAILABLE – 8260.19J 8-6-12(B)5, NEW EVALUATION INCREASED MINIMUMS.
16. MINIMUMS: RAISED S-ILS 11* (305/4000) ALL CATS MDA/HAT FROM 292/200 TO 312/220 – 8260.3D 10-2-8(D).
17. MINIMUMS: RAISED S-LOC 11(235/4000) ALL CATS MDA/HAT FROM 880/788 TO 980/888 – NEW EVAL AND UPDATED PRECIPITOUS POINT VALUE (PPV).
18. MINIMUMS: RAISED S-LOC 11(235/4000) CAT A VISIBILITY FROM 2400 TO 4000 AND CAT C, D FROM 1/3/4 TO 2 – NEW EVAL AND UPDATED PPV.

08/07/24: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 06/06/24.

1. CHANGED MISSED APPROACH INSTRUCTIONS TO READ CLIMB TO 5100 DIRECT CMJ NDB AND ON CMJ NDB BRG 124 TO UCARU/I-ECH 6.58 DME AND ON ANN VOR/DME R-338 TO ANN VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5100.

COORDINATED WITH:

A4A

X

ALPA

X

AOPA

X

APA

X

HAI

NBAA

X

OTHER: ZAN, KTN FSS, APRT MANAGER, REGION AWO, WFPT

FLIGHT CHECKED BY

JEREMY CURTIS LEIGHTON

Digitally signed by

ALLAN WILL

Sep 20, 2024

OFFICE

FIOG

DATE

07/22/2024

DEVELOPED BY

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Sep 17, 2024

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AJV-A423

DATE

04/23/2024

APPROVED BY

ALLAN WILL

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ALLAN WILL

Sep 20, 2024

OFFICE

AJV-A423

DATE

TITLE

MANAGER

