

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 Y OR LOC Y RWY 11	<u>ORIGINAL/AMENDMENT</u> 8A	<u>CITY</u> KETCHIKAN	<u>STATE</u> AK
<u>AIRPORT ELEVATION</u> 92	<u>TDZE</u> 92	<u>SUPERSEDED</u> ILS Y OR LOC Y RWY 11	<u>ORIGINAL/AMENDMENT</u> 8	<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		COGOX/I-ECH 13.85 DME					312.15	30.27	5000
DOOZI/ANN 40.00 DME	IAF	RUYOC/I-ECH 19.47 DME	NOPT				124.00 (HDG) & 114.59 (I-ECH)	2.91 & 1.46	4600
RUYOC/I-ECH 19.47 DME	IF	COGOX/I-ECH 13.85 DME					114.59 (I-ECH)	5.62	4100

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 270 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	L	SIDE OF COURSE	294.59	OUTBOUND	4600	FT WITHIN	10	MILES OF	COGOX/I-ECH 13.85 DME (IAF)
2.									
3. FAC:	114.59	FAF:	COGOX/I-ECH 13.85 DME			DIST FAF TO MAP:		DIST FAF TO THLD:	12.45
4. MIN ALT:	COGOX/I-ECH 13.85 DME 4100, OYECU/4.80 DME 1220								
5. DIST TO THLD FROM OM:		MM:		IM:		150 HAT:		GS ANT:	914
6. MIN GS INCPT:	4100	GS ALT AT PFAF:	COGOX/I-ECH 13.85 DME 4100					OM:	
7. GS ANGLE:	3.00	34:1:		20:1:		TCH:	50.4	MM:	
8. MSA FROM:	CMJ NDB 5800							IM:	

QUALITY
10
CHECKED

EQUIPMENT REQUIREMENTS NOTES:

ADF REQUIRED.
DME REQUIRED.

NOTES:

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 NOTE: # RVR 1800 AUTHORIZED WITH THE USE OF FD OR AP OR HUD TO DA.

ADDITIONAL FLIGHT DATA:

CHART IN PLANVIEW: ANN VOR/DME 30.27 DME AT COGOX.
CHART ARRIVAL HOLDING AT DOOZI: HOLD NW, RT, 128.54 INBOUND, 6000.

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 900-2, CAT C, D 900-2 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 11#	312	2400	220	312	2400	220	312	2400	220	312	2400	220			
S-ILS 11*	481	3500	389	481	3500	389	481	3500	389	481	3500	389			
S-LOC 11	980	4000	888	980	4000	888	980	2	888	980	2	888			



CHANGES - REASONS

1. REMOVED ALTERNATE MISSED APPROACH INSTRUCTIONS AND REMOVED ASSOCIATED PLANVIEW HOLDING FROM ADDITIONAL FLIGHT DATA – ICK NDB DECOMMISSIONING.
2. MISSED APPROACH INSTRUCTIONS: CHANGED FROM CLIMB TO 5000 DIRECT CMJ NDB AND ON CMJ NDB BEARING 124 TO UCARU/I-ECH 6.6 DME AND ON ANN VOR/DME R-338 TO ANN VOR/DME AND HOLD. S-LOC 11 MISSED APPROACH REQUIRES MINIMUM CLIMB OF 235 FEET PER NM TO 4000. S-ILS 11 MISSED APPROACH REQUIRES MINIMUM CLIMB OF 270 FEET PER NM TO 4000.S-ILS 11 MISSED APPROACH REQUIRES MINIMUM CLIMB OF 305 FEET PER NM TO 4000. IF UNABLE TO MEET CLIMB GRADIENTS, SEE LOC X RWY 11 TO CLIMB TO 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, CONTINUE CLIMB-IN-HOLD TO 5000. #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 270 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.
3. NOTES: CHANGED CHART NOTE FROM CHART NOTE: FOR INOPERATIVE MALSR, INCREASE **S-ILS 11 VISIBILITY TO RVR 6000 AND 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).
4. 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.
5. ADDITIONAL FLIGHT DATA: CHANGED CHART VDP AT FROM 3.73 TO 4.04 AND DISTANCE VDP TO THLD FROM 2.32 TO 2.63 – NEW EVALUATION.
6. ADDITIONAL FLIGHT DATA: MOVED ADF AND DME REQUIRED TO EQUIPMENT REQUIREMENT NOTES – 8260.19J 8-6-8(A)2.
7. ADDITIONAL FLIGHT DATA: REMOVED CHART (CFCFZ) AT INTERSECTION OF DOOZI DR LEG AND INTERMEDIATE COURSE – NO LONGER REQUIRED.
8. ADDED CHART NOTE: RWY 11 HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NOT AUTHORIZED – 8260.19J 8-6-12(K)2, 34:1 PENETRATIONS.
9. 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 ½, NA WHEN LOCAL WEATHER NOT AVAILABLE – 8260.19J 8-6-12(B)5, NEW EVALUATION INCREASED MINIMUMS.
10. MINIMUMS: RAISED S-ILS 11# (305/4000) ALL CATS MDA/HAT FROM 292/200 TO 312/220 – 8260.3E 10-2-8(D).
11. MINIMUMS: LOWER S-ILS 11*(270/4000) ALL CATS VISIBILITY FROM 4500 TO 3500 – PER FPT AND 8260.3E TABLE 3-3-1.
12. 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).
13. 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 ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZAN, KTN FSS, APRT MANAGER, REGION AWO, WFPT

FLIGHT CHECKED BY

JEREMY CURTIS LEIGHTON

OFFICE

FIOG

DATE

07/22/2024

Digitally signed by

ALLAN WILL

Aug 15, 2024

DEVELOPED BY

RAYMOND JOHNSON

OFFICE

AJV-A423

DATE

04/23/2024

Digitally signed by

ALLAN WILL

Aug 15, 2024

APPROVED BY

ALLAN WILL

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DATE

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ALLAN WILL

Aug 15, 2024

TITLE
MANAGER

