

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION LOC STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.25										Bearings, headings, courses, 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 in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH									
FROM		TO			COURSE AND DISTANCE				ALTITUDE		MAP: 1.40 DME FIX								
ANN VOR/DME		COGOX/I-ECH 13.85 DME			312.15 / 30.27				5000		CLIMB TO 5000 DIRECT CMJ NDB THEN 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. ALTERNATE MA (DO NOT CHART): CLIMB TO 5000 DIRECT CMJ NDB THEN ON CMJ NDB BRG-124 TO UCARU/I-ECH 6.58 DME AND ON COURSE 166 TO ICK NDB AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 128.54 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NW ICK NDB, RT, 133.00 INBOUND. CHART ARRIVAL HOLDING AT DOOZI: HOLD NW, RT, 128.54 INBOUND, 5000. CHART FAS OBST: 647 TREE 552305N/1314650W CHART VDP AT 6.56 DME DISTANCE VDP TO THLD 5.16 NM. CHART (CFCFZ) AT INTERSECTION OF DOOZI DR LEG AND INTERMEDIATE COURSE. CHART IN PLANVIEW: ICK NDB. COGOX TO RW11: 3.00/50 CHART CIRCLING ICON. (SEE FORM 8260-10)								
DOOZI/ANN 40.00 DME (IAF)		RUYOC/I-ECH 19.47 DME (NOPT)			124.00 / 2.91 (HDG) & 114.59 / 1.46 (I-ECH)				4600										
RUYOC/I-ECH 19.47 DME (IF)		COGOX/I-ECH 13.85 DME			114.59 / 5.62 (I-ECH)				4100										
1. PT <u>L</u> SIDE OF COURSE <u>294.59</u> OUTBOUND <u>4600</u> FT WITHIN <u>10</u> MILES OF <u>COGOX</u> (IAF)										MAG VAR: 21E EPOCH YEAR: 2010									
2. _____																			
3. FAC <u>114.59</u> FAF <u>COGOX/I-ECH 13.85 DME</u> DIST FAF TO MAP _____ THLD <u>12.45</u>																			
4. MIN. ALT <u>COGOX 4100</u>																			
8. MSA FROM: <u>CMJ NDB 5800</u>																			
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A _____ @ _____									
CATEGORY =====>		A			B			C			D			E					
		MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA			
S-11		1780	1 1/4	1688	1780	1 1/2	1688	1780	3	1688	1780	3	1688						
CIRCLING		2100	1 1/4	2008	2640	1 1/2	2548	3020	3	2928	3300	3	3208						
NOTES: CHART NOTE: CIRCLING NA AT NIGHT. CHART PROFILE NOTE: USE I-ECH DME WHEN ON THE LOCALIZER COURSE. CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY. CHART NOTE: DME AND ADF REQUIRED.																			
CITY AND STATE KETCHIKAN, AK		ELEVATION: 92 TDZE: 92 AIRPORT NAME: KETCHIKAN INTL			FACILITY IDENTIFIER: I-ECH			PROCEDURE NO./AMDT NO./EFFECTIVE DATE: LOC X RWY 11, AMDT 1							SUP LOC/DME X RWY 11 AMDT ORIG DATE 09/25/2008				



ALL AFFECTED PROCEDURES REVIEWED? <div><input checked="" type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES <div>SEE CHANGES</div>		REQUIRED EFFECTIVE DATE <div>ROUTINE</div>	
COORDINATED WITH: <div><div>ATA<div><input checked="" type="checkbox"/></div></div><div>AAT<div><input type="checkbox"/></div></div><div>ALPA<div><input checked="" type="checkbox"/></div></div><div>APA<div><input checked="" type="checkbox"/></div></div><div>AOPA<div><input checked="" type="checkbox"/></div></div><div>NBAA<div><input checked="" type="checkbox"/></div></div><div>OTHER (specify)<div><input checked="" type="checkbox"/> ZAN, KTN FSS, APRT MANAGER, REGION AWO, WFPT</div></div></div>					
FLIGHT CHECKED BY					
NAME:			FIFO	DATE:	
Digitally signed by			DEVELOPED BY		
NAME: SCOTT STEVENSON May 27, 2016 SCOTT STEVENSON			FIFO AJV-5433	DATE: 03/17/2016	
APPROVED BY					
NAME: LONNIE EVERHART			FIFO AJV-5430	DATE:	
CHANGES: 1. ANN VOR/DME TO COGOX COURSE DISTANCE CHANGED FROM 312.38/29.90 OT 312.15/30.27. 2. RUYOC TO COGOX DISTANCE CHANGED FROM 6.01 TO 5.62. 3. DISTANCE FAF TO THLD CHANGED FROM 12.06 TO 12.45. 4. ADDITIONAL FLIGHT DATA: VDP CHANGED FROM 6.58 TO 6.56 DME AND DISTANCE VDP TO THLD CHANGED FROM 5.18 TO 5.16. 5. ADDITIONAL FLIGHT DATA: COGOX TO RW11: 3.10/50 CHANGED TO 3.00/50. 6. REMOVED DME FROM PROCEDURE NAME AND ADDED AS A CHART NOTE. 7. ALTERNATE MISSED APPROACH: CHANGED COURSE UCARU TO ICK NDB FROM 163.00 TO 165.71; CHANGED ICK NDB HOLDING PATTERN FROM 130.00 TO 133.00. 8. CHANGED CNF FIX AT INTERSECTION OF DOOZI DR LEG AND INTERMEDIATE COURSE FROM VUCSU TO CFCFZ. 9. CHARTED CIRCLING ICON. 10. ADDED CHART ARRIVAL HOLDING AT DOOZI: HOLD SW, RT, 128.54, 5000 TO ADDITIONAL FLIGHT DATA. 11. CHANGED CHART NOTE FROM "INOPERATIVE TABLE DOES NOT APPLY" TO "INOPERATIVE TABLE DOES NOT APPLY TO CATS C AND D". 12. S-11 ALL CATS HAT CHANGED FROM 1692 TO 1688. 13. CIRCLING: CAT A MINIMUMS CHANGED FROM 2440/HAA 2352 TO 2100/HAA 2008; CAT B MINIMUMS CHANGED FROM 2700/HAA 2612 TO 2640/HAA 2548; CAT C MINIMUMS CHANGED FROM 2900/HAA 2812 TO 3020/HAA 2928; CAT D MINIMUMS CHANGED FROM 3280/HAA 3192 TO 3300/HAA 3208. (SEE FORM 8260-10)					
REASONS: 1-5. COGOX MOVED FROM 553015.92N/1315815.92W 2392 FEET NORTHWEST TO PFAF LOCATION. 6. LATEST PROCEDURE NAMING CONVENTION. 7. ICK NDB MAGVAR ROTATED FROM 21E/2010 TO 18E/2020. 8. LATEST CNF FIX NAMING CONVENTION. 9. IAW 8260.19G, 8-6-8, W. 10. ATC REQUEST FOR ARRIVAL HOLDING AT DOOZI FOR NON-RADAR ARRIVALS. 11. DUE TO CATS A AND B VISIBILITY CHANGE. 12. TDZE CHANGED FROM 88 TO 92. 13-14. NEW CIRCLING AREA APPLIED IN CONJUNCTION WITH MAP STUDY AND SURVEY DATED 5/11/2012.					

QUALITY
18
CHECKED

LOC STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - - TITLE 14 CFR PART 97.25

Bearings, headings, courses, 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 in feet RVR.

ADDITIONAL FLIGHT DATA, (CONT.):

CHART IN PLANVIEW: ANN VOR/DME 30.27 DME AT COGOX.

QUALITY
18
CHECKED

CITY AND STATE

KETCHIKAN, AK

ELEVATION: 92

TDZE: 92

AIRPORT NAME:

KETCHIKAN INTL

FACILITY
IDENTIFIER:
I-ECH

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

LOC X RWY 11, AMDT 1

SUP: LOC/DME X RWY 11

AMDT: ORIG

DATED: 09/25/2008

ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
COORDINATED WITH:					
ATA <div><input type="checkbox"/></div>		AAT <div><input type="checkbox"/></div>	ALPA <div><input type="checkbox"/></div>	APA <div><input type="checkbox"/></div>	AOPA <div><input type="checkbox"/></div>
NBAA <div><input type="checkbox"/></div>		OTHER (specify) <div><input type="checkbox"/></div>			
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES: CHANGES CONT. 14. ALTERNATE MINIMUMS CHANGED FROM CAT A 2400-2 TO 2100-2, CAT B 2700-2 TO 2600-2, CAT C 2900-3 TO 3000-3, CAT D 3200-3 TO 3300-3.					
REASONS:					

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - PAKT

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
ANN	010	ANN	IF	FB										V
ANN	020	COGOX	TF	FB								AA 05000		E
ANN	030	COGOX	PI	FB		249.6	ANN		R			AA 04600		EE A
DOOZI	010	DOOZI	IF	FB										E C
DOOZI	020	CFCFZ	TF	FB								AA 04600		E
DOOZI	030	RUYOC	CF	FB		114.6	IECH					AA 04600		EE B
	010	RUYOC	IF	FB			IECH					AA 04600		E I
	020	COGOX	CF	FB		115.0	IECH			CMJ		AA 04100		E F
	030	RW11	CF	FO		115.0	IECH	3.00				AT 00135		GY M
	040	CMJ	DF	FB								AA 05000		N M
	050	UCARU	TF	FB										E
	060	ANN	TF	FO								AA 05000		VY
	070	ANN	HM	FO		128.5			R			AA 05000		VE

POINTS

POINT NAME	LATITUDE	LONGITUDE
ANN	N550337.47	W1313442.24
IECH (DME)	N552042.83	W1314139.57
DOOZI	N553757.14	W1321028.73
CFCFZ	N553534.36	W1320732.22
COGOX	N553032.70	W1315845.09
RUYOC	N553432.63	W1320541.45
UCARU	N551520.24	W1313502.59
IECH (LOC)	N552041.01	W1314142.53
CMJ	N552031.82	W1314126.75

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW11	N552141.08	W1314325.78	00085	50

QUALITY
15
CHECKED

CITY AND STATE
KETCHIKAN, AK

ELEVATION: **92** TDZE: **92**
AIRPORT NAME:
KETCHIKAN INTL

FACILITY
IDENTIFIER:
I-ECH

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
LOC X RWY 11, AMDT 1

SUP: **LOC/DME X RWY 11**

AMDT: **ORIG**

DATED: **09/25/2008**

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
COORDINATED WITH: <div>ATA<input type="checkbox"/> AAT<input type="checkbox"/> ALPA<input type="checkbox"/> APA<input type="checkbox"/> AOPA<input type="checkbox"/> NBAA<input type="checkbox"/> OTHER (specify) <input type="checkbox"/> _____</div>					
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				NFPG	DATE:
APPROVED BY					
NAME:				NFPG	DATE:
CHANGES:					
REASONS:					

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.			
FEEDER	ANN VOR/DME	COGOX/I-ECH	1. AAO	551155.25N/1314715.70W	2930 (2C)	2000		5000			
		13.85 DME	2. TERRAIN	551155.25N/1314715.70W	2730 (2700)		AS1500	4200			
INITIAL	DOOZI/ANN 40.00	RUYOC/I-ECH	3. AAO	553505.71N/1320736.96W	3344 (2C)	1000	PR215	4600			
	DME	19.47 DME	4. TERRAIN	553505.71N/1320736.96W	3144 (3100)		AS1500	4600			
INTERMEDIATE	RUYOC/I-ECH	COGOX/I-ECH	5. AAO	553338.53N/1320446.78W	2933 (2C)	500	PR183 AT484	4100			
	19.47 DME	13.85 DME	6. TERRAIN	553338.53N/1320446.78W	2733 (2700)		AS1000	3700			
INTERMEDIATE: PT	10 NM	COGOX/I-ECH	3. AAO	553505.71N/1320736.96W	3344 (2C)	500	PR166	4100			
		13.85 DME	4. TERRAIN	553505.71N/1320736.96W	3144 (3100)		AS1000	4100			
FINAL	COGOX/I-ECH 13.85	I-ECH 1.40 DME FIX	7. TREE (PKTN0032)	552305.30N/1314649.73W	647 (1A)	250	XL323 MA560	1780			
	DME										
2. PROCEDURE TURN	COGOX	10 NM	3. AAO	553505.71N/1320736.96W	3344 (2C)	1000	PR166	4600			
			4. TERRAIN	553505.71N/1320736.96W	3144 (3100)		AS1500	4600			
3. MISSED APPROACH	MAP:	1.40 DME FIX	ANN VOR/DME	8. AAO	551054.79N/1313101.22W	3105 (2C)	ASC	5000			
				8. AAO	551054.79N/1313101.22W	3105 (2C)	1000	4200			
	ELEV:	1223		9. TERRAIN	551054.79N/1313101.22W	2905 (2900)		AS1500			
4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.									
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL	2008	10. TREE	552056.39N/1314516.95W	1782 (2C)	300		2100
CATEGORY B	1.5 NM		450		2548	11. TREE	552152.98N/1313917.51W	2323 (1B)	300		2640
CATEGORY C	1.7 NM		450		2928	12. TREE	552310.68N/1314026.80W	2704 (1B)	300		3020
CATEGORY D	2.3 NM		550		3208	13. AAO	552107.11N/1313510.11W	3000 (2C)	300		3300
CATEGORY E	4.5 NM		550								
5. MINIMUM SAFE ALTITUDES											
PRIMARY NAVAIID: CMJ NDB											
SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A		
360-360	AAO	013/26.6	4792 (6A)	5800							
CITY AND STATE		ELEVATION: 92			FACILITY		PROCEDURE AND AMENDMENT NO:			REGION	
KETCHIKAN, AK		AIRPORT NAME: KETCHIKAN INTL			I-ECH		LOC X RWY 11, AMDT 1			AAL	

PART B - SUPPLEMENTAL DATA										PART C - REMARKS: PRECIPITOUS TERRAIN EVALUATION COMPLETED. BLOCK 3: ALTIMETER SETTING SOURCE: PAKT 3. NO SUITABLE BACK-UP ALTIMETER SOURCE AVAILABLE. ASOS ON SERVICE A VGSI DATA: 3.00/50.4 4. MONITOR STATUS MONITOR POINT: ECH FSS HRS OPTN: CAT 1 - 24 ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED. CAT A: 1.30NM CAT B: 1.86NM CAT C: 2.96NM CAT D: 3.89NM SEE ATTACHED AIRSPACE LETTER. XL CALC FROM COGOX: (12.45 - 6)*5*10=323 TREE HEIGHTS USED WERE OBTAINED FROM THE ALASKA STATE FORESTRY DEPARTMENT FOR SE ALASKA. 0-499' ELEVATION - 200 FT 500-999' ELEVATION - 148 FT 1000-1499' ELEVATION - 115 FT 1500-1999' ELEVATION - 82 FT 2000-2499' ELEVATION - 49 FT 2500-2999' ELEVATION - 16 FT 3000+ NO TREES BACKUP ALTIMETER MINIMUMS NOT DEVELOPED - NO SUITABLE BACK-UP ALTIMETER EXISTS. COORDINATED WITH FPT. THIS PROCEDURE DEVELOPED AS A BACK-UP APPROACH FOR THOSE UNABLE TO COMPLY WITH THE CG RESTRICTIONS ON THE ILS Y OR LOC Y RWY 11, ORIG. CIRCLING NA AT NIGHT PER AWO. WAIVERS NOT RESUBMITTED FOR UPDATE AT THIS TIME. PER INTERNAL QC AND AFS COORDINATION, WAIVERS STILL APPLY TO THE SAME ISSUES AND UPDATING CRITERIA REFERENCES FOR "CLEAN-UP" PURPOSES IS NOT NECESSARY. CATS A/B NOT WITHIN VERTICAL COVERAGE OF APPROACH LIGHTS. NO LIGHT CREDIT APPLIED TO CATS A/B. ORDER 8260.3, VOLUME 1, "VISUAL PORTION OF FINAL" PENETRATIONS: 34:1 516 TREE (PKTNT000625) 552309.93N/1314651.38W (3.22) MISSED APPROACH OBSTACLES CONT. ALTERNATE: 8. AAO 551054.79N/1313101.22W 3105 (2C) ASC 5000 8. AAO 551054.79N/1313101.22W 3105 (2C) 1000 4200 9. TERRAIN 551054.79N/1313101.22W 2905 (2900) AS1500 4400	
1. COMMUNICATIONS WITH: ZAN ARTCC KTN FSS			2. WEATHER SERVICE			3. ALTIMETER SETTING					
SATISFACTORY ON:				N W S	OTHER: ASOS		SOURCE:PAKT				
				F A A			DISTANCE:				
				A / C			HOURS REMOTE OPERATION:				
X	V H F	X	U H F		H F	LOCATION: PAKT			ADJUSTMENT: 0		
4. MONITOR STATUS	PRIMARY NAVAID: I-ECH										
	MONITOR POINT:										
	HRS OPTN:	CAT 1									
5. APPROACH & RUNWAY LIGHTING		ALS									
		(S) SALS									
	X	MALSR 11 (PCL), 29 (PCL)									
	X	HIRL 11 (PCL), 29 (PCL)									
		MIRL									
		REIL									
		TDZ									
		C/LINE									
	X	OTHER (SPECIFY) PAPI-4L 11, 29									
6. RUNWAY MARKINGS		BASIC									
		ALL WEATHER PIR-P 11, 29									
		INSTRUMENT									
7. RUNWAY VISUAL RANGE		APPROACH 11, 29									
		MIDFIELD									
		ROLL OUT 11, 29									
8. GLIDE PATH		GP ANGLE:				ELEV RWY THRESHOLD:					
		DISTANCE FROM RWY: 914				ELEV GP ANTENNA: 82.4					
						THRESHOLD CROSSING HEIGHT:50.4					
9. FINAL APPROACH COURSE AIMING		X	RUNWAY THRESHOLD						FT. FROM THRESHOLD		
		X	ON CENTERLINE						FT. FROM CENTERLINE		
10. WAIVERS: 1 ORDER 8260.3B, VOLUME 1, PARAGRAPH 901; MAX LENGTH OF FINAL FOR LOC APPROACH 10NM PER CRITERIA, 12.06NM NEEDED FOR PT PLACEMENT.											
PART D - PREPARED BY: SCOTT STEVENSON						DATE: 03/17/2016					
TITLE: AERONAUTICAL INFORMATION SPECIALIST						OFFICE: AJV-5433					

