

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

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</u> KETCHIKAN INTL	<u>AIRPORT ID</u> PAKT	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 29	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> KETCHIKAN	<u>STATE</u> AK	
<u>AIRPORT ELEVATION</u> 92	<u>TDZE</u> 92	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u> 21E	<u>EPOCH YEAR</u> 2010
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL SUSPEND</u>		

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>
ANN VOR/DME		ZIKMU		TF	FO	2.00	027.56	9.09	4500
ZIKMU	IF/IAF	YADUR		TF	FB	1.00	294.87	6.74	3500
YADUR	PFAF	RW29	MAP	TF	FO	0.30	294.76	8.91	
RW29	MAP	492 MSL		CA			294.76		
492 MSL		CLOYD		DF	FB	1.00			
CLOYD		DOOZI		TF	FO	1.00	296.20	16.29	5000

MISSED APPROACH

MAP:

LPV: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5000 DIRECT CLOYD AND ON TRACK 296.20 TO DOOZI AND HOLD.

*MISSED APPROACH REQUIRES MINIMUM CLIMB OF 425 FEET PER NM TO 2160; IF UNABLE TO MEET CLIMB GRADIENT, SEE RNAV (GPS)-B.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)
2. HOLD SE ZIKMU, RT, 294.87 INBOUND, 4500 FT. IN LIEU OF PT (IF/IAF), MAX 6000.
3. FAC: 294.76FAF: YADURDIST FAF TO MAP:DIST FAF TO THLD:
4. MIN ALT: ZIKMU 4500, YADUR 3500
5. DIST TO THLD FROM OM: 8.91MM:IM:150 HAT:630 HAT: 1.53
6. MIN GP INCPT: 3500GP ALT AT FAF : YADUR 3500OM:MM:IM:
7. GP ANGLE: 3.5534:1: IS CLEAR20:1: IS CLEARTCH: 50.0
8. MSA FROM: RW29 5800

PBN REQUIREMENTS NOTE

RNP APCH.

NOTES:

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ANN VOR/DME ON V317, T266 SOUTHEAST BOUND.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE ALL CATS VISIBILITY TO 1 3/4 SM.

ADDITIONAL FLIGHT DATA:

WAAS CHANNEL #40142
REFERENCE PATH ID: W29A
HOLD NW, RT, 128.54 INBOUND
LTP HAE: 21.5 M

MINIMUMS:

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

ALTERNATE: NA ☒

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
LPV DA*	722	1 3/8	630	722	1 3/8	630	722	1 3/8	630		NA				

CHANGES - REASONS

ORIG PROCEDURE.

PDF EDIT: DELETED "ASC" FROM ROC BLOCK OF 8260-9 LINE 7.



<u>AIRPORT</u> KETCHIKAN INTL	<u>AIRPORT ID</u> PAKT	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 29	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> KETCHIKAN	<u>STATE</u> AK
<u>COORDINATED WITH:</u>					
A4A <input checked="" type="checkbox"/> ALPA <input checked="" type="checkbox"/> AOPA <input checked="" type="checkbox"/> APA <input type="checkbox"/> HAI <input type="checkbox"/> NBAA <input checked="" type="checkbox"/> <u>OTHER:</u>					
<u>FLIGHT CHECKED BY</u>			<u>OFFICE</u>	<u>DATE</u>	
<u>DEVELOPED BY</u>			<u>OFFICE</u>	<u>DATE</u>	
IVAN BLANCO			AJV-5432	04/06/2018	
<u>APPROVED BY</u>			<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
PATRICK MULQUEEN			AJV-5430		MANAGER



FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	PAKT
RUNWAY	RW29
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W29A
LTP/FTP LATITUDE	552048.2675N
LTP/FTP LONGITUDE	1314154.9950W
LTP/FTP ELLIPSOIDAL HEIGHT	+00215
FPAP LATITUDE	552151.8045N
FPAP LONGITUDE	1314344.2155W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.55
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0464
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	31B8E531
ADDITIONAL PATH POINT RECORD INFORMATION	
ICAO CODE	PA
LTP ORTHOMETRIC HEIGHT	+00272
FPAP ORTHOMETRIC HEIGHT	+00272



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

<u>AIRPORT</u> KETCHIKAN INTL	<u>AIRPORT ID</u> PAKT	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 29	<u>AMDT NO.</u> ORIG	<u>CITY</u> KETCHIKAN	<u>STATE</u> AK	<u>AIRPORT ELEVATION</u> 92	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM
ANN VOR/DME

TO
ZIKMU

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
	9.09										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.AAO	550657.00N/1312536.00W	2484	1000	3	6A	2000					4500
2.TERRAIN	550657.00N/1312536.00W	2284 (2300)								AS1500	3800

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT
REMARKS:

INTERMEDIATE: LPV

FROM
ZIKMU (IF/IAF)

TO
YADUR

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
	6.74										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
3.AAO	551055.00N/1313104.00W	3105	50	20	2C	500				PR180 SA-325	3500
4.TERRAIN	551003.00N/1312818.00W	2457 (2500)								AS1000	3500

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT
REMARKS:



FINAL: LPV

FROM

YADUR

TO

RW29

RNP

DISTANCE

PAT

MAP

HAT

HMAS

8.91

DA

630

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC			MA360	722

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT

REMARKS:

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

MISSED APPROACH : LPV

FROM

RW29

TO

DOOZI

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
		2	DA					352			
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
7.TREE (02-026409)	552204.13N/1314656.96W	1711	20	10	1B		19:1				5000
8.AAO	553505.71N/1320736.96W	3344	50	20	2C	1000					4400
9.TERRAIN	553505.71N/1320736.96W	3144 (3100)								AS1500	4600

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT
REMARKS:

CIRCLING

☐ ALL CATS

☐ CAT A

☐ CAT B

☐ CAT C

☐ CAT D

☐ CAT E

☒ NOT AUTHORIZED

MSA

CENTER

RW29

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	554218.00N/1311454.00W	014	26.5	4781	1000	3	6A	1000			5800

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

3.55 GPA/TCH 50 UTILIZED TO HELP MITIGATE MA OBSTACLES.

LNAV, LNAV/VNAV NOT DEVELOPED DUE TO EXCESSIVE DA ADJUSTMENTS REQUIRED DUE TO TERRAIN IN MA SEGEMENT.

VEGETATION 100 FT PER FPT.

TAA NOT REQUESTED BY FPT/ATC.

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZAN ARTCC, KTN FSS



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
KETCHIKAN INTL	PAKT	RNAV (GPS) RWY 29	ORIG	KETCHIKAN	AK	92	RNAV

PART D: AIRSPACE
DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	6.26
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.57
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	315.76
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1542
DISTANCE FROM	THLD	TO 1500FT POINT	7.59
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	1.86
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	315.76
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	1542

THRESHOLD COORDINATES (IF STR-IN) 552048.27N/1314155.00W

ARP COORDINATES 552114.70N/1314240.40W

RUNWAY APCH END AND DIST FURTHEST FROM ARP RUNWAY 29 DISTANCE 0.62 NM

FAF COORDINATES 551426.27N/1313101.35W

FIX NAME COORDINATES IF/IAF ZIKMU: 550937.02N/1312249.83W

REMARKS



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
KETCHIKAN INTL	PAKT	RNAV (GPS) RWY 29	ORIG	KETCHIKAN	AK	92	RNAV

PART E: PREPARED BY							
<u>NAME</u>			<u>OFFICE</u>	<u>DATE</u>		<u>TITLE</u>	
IVAN BLANCO			AJV-5432	04/06/2018		AERONAUTICAL INFORMATION SPECIALIST	

