

**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 ID</u> PAKN	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 12	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> KING SALMON	<u>STATE</u> AK		
<u>AIRPORT ELEVATION</u> 73	<u>TDZE</u> 62	<u>SUPERSEDED</u> RNAV (GPS) RWY 12	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 09/25/2008	<u>MAG VAR</u> 11E	<u>EPOCH YEAR</u> 2025
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 25 FEBRUARY 2021	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 031/30 CW 211/30	NOPT	DUPYA	IF/IAF	2000
2. 211/30 CW 301/30		FOMUT	IAF	5000
3. 301/30 CW 031/30		EXIPE	IAF	3200

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
EXIPE	IAF	DUPYA	NOPT	TF	FB	1.00	030.59	6.56	2000
FOMUT	IAF	DUPYA	NOPT	TF	FB	1.00	210.82	6.00	2000
DUPYA	IF/IAF	HEXES		TF	FB	1.00	120.71	6.25	1700
HEXES	FAF	LODKE/2.21 NM TO RW12		TF	FB	0.30	120.74	2.76	
LODKE/2.21 NM TO RW12		RW12	MAP	TF	FO	0.30	120.74	2.21	
RW12	MAP	262 MSL		CA			120.74		
262 MSL		FELUM		DF	FB	1.00			
FELUM		JUTAN		TF	FB	1.00	210.74	7.87	
JUTAN		OLLER		TF	FO	1.00	271.94	14.69	3000



MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW12

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT FELUM AND ON TRACK 210.74 TO JUTAN AND ON TRACK 271.94 TO OLLER AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. HOLD NW DUPYA, RT, 120.71 INBOUND, 2000 FT. IN LIEU OF PT (IF/IAF), MAX 14000.					
3. FAC: 120.74	FAF: HEXES		DIST FAF TO MAP: 4.98		DIST FAF TO THLD: 4.98
4. MIN ALT: DUPYA 2000, HEXES 1700, LODKE/2.21 NM TO RW12 820*					
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	200 HAT: 0.46	GS ANT:
6. MIN GP INCPT: 1700	GP ALT AT FAF: HEXES 1700			OM:	MM:
7. GP ANGLE: 3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 55.0		IM:
8. MSA FROM:					

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -18°C OR ABOVE 54°C.
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
 CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV CAT E VISIBILITY TO RVR 4000, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 5000 AND INCREASE LNAV CAT E VISIBILITY TO 1 3/8 SM.
 CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA (NA WHEN CONTROL TOWER CLOSED).
 CHART NOTE: WHEN CONTROL TOWER CLOSED, LPV, LNAV/VNAV AND LNAV VISIBILITY RVR 5000.
 CHART NOTE: WHEN CONTROL TOWER CLOSED, INOPERATIVE TABLE DOES NOT APPLY TO LPV, LNAV/VNAV AND LNAV CATS A/B.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR CAT E ARRIVALS AT EXIPE AND FOMUT.

ADDITIONAL FLIGHT DATA:

CHART IN PLANVIEW: MAXIMUM HOLDING AIRSPEED AT OLLER 230 KIAS.
 CHART CIRCLING ICON
 407 AAO 584536N/1564536W
 HOLD SW, RT, 034.82 INBOUND.
 CHART FAS OBST: 265 TOWER 584146N/1564002W.
 CHART VDP AT 1.22 NM TO RW12*
 *LNAV ONLY.
 WAAS CHANNEL # 72608
 REFERENCE PATH ID: W12A
 LTP HAE: 31.4 M



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

ALTERNATE: NA STANDARD - CAT D 900-2 3/4, CAT E 900-3

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
LPV DA	262	2400	200	262	2400	200	262	2400	200	262	2400	200	262	2400	200
LNAV/VNAV DA	426	3500	364	426	3500	364	426	3500	364	426	3500	364	426	3500	364
LNAV MDA	520	2400	458	520	2400	458	520	4500	458	520	4500	458	520	4500	458
CIRCLING	580	1	507	580	1	507	580	1 1/2	507	900	2 3/4	827	960	3	887



CHANGES - REASONS

1. MAGVAR UPDATED FROM 16E TO 11E - UPDATED TO 2025 EPOCH YEAR
2. UPDATED TAA SECTOR 1 FROM 028/30 CW 206/30 TO 031/30 CW 211/30 -MAGVAR CHANGE
3. UPDATED TAA SECTOR 2 HEADINGS/ALTITUDE FROM 206/30 CW 296/30 AT 4900 TO 211/30 CW 301/30 AT 5000 - MAGVAR CHANGE AND NEW OBSTACLE EVALUATION
4. UPDATED TAA SECTOR 3 FROM 296/30 CW 028/30 AT 3400' TO 301/30 CW 031/30 AT 3200 - MAGVAR CHANGE AND NEW OBSTACLE EVALUATION
5. TERMINAL ROUTES - EXIPE TO DUPYA COURSE/DISTANCE CHANGE FROM 027.55/6.55 TO 030.59/6.56 - CHANGED TO MEET UPDATED "T" CONFIGURATION AS WELL AS MAGVAR CHANGE
6. TERMINAL ROUTES - FOMUT TO DUPYA COURSE/DISTANCE CHANGED FROM 205.72/6.00 TO 210.82/6.00 - CHANGED TO MEET UPDATED "T" CONFIGURATION AS WELL AS MAGVAR CHANGE
7. TERMINAL ROUTES - DUPYA TO HEXES COURSE/DISTANCE CHANGED FROM 115.61/6.09 TO 120.71/6.25 - NEW CALCULATED PFAF LOCATION AS WELL AS MAGVAR CHANGE
8. TERMINAL ROUTES - ADDED STEPDOWN FIX LODKE - ACHIEVE LOWER LNAV AND CIRCLING MINIMUMS
9. MISSED APPROACH CHANGED FROM "CLIMB TO 3000 DIRECT FELUM AND VIA 205.85 TRACK TO JUTAN AND VIA 266.69 TRACK TO OLLER AND HOLD" TO "CLIMB TO 3000 DIRECT FELUM AND ON TRACK 210.74 TO JUTAN AND ON TRACK 271.94 TO OLLER AND HOLD" - TRACKS CHANGED DUE TO MAGVAR UPDATE
10. PROFILE LINE 2 - HOLDING INBOUND CRS CHANGED FROM 115.61 TO 120.71 AS WELL AS ADDED "MAX 14000" - CRS CHANGED TO MEET UPDATED "T" CONFIGURATION/MAGVAR CHANGE, MAX 14000 ADDED IAW 8260.19 PARA 8-6-7B(2)(A).
11. PROFILE LINE 3 - FAC/DIST FAF TO THLD CHANGED FROM 115.74/4.91 TO 120.74/4.98 - NEW CALCULATED PFAF LOCATION AS WELL AS MAGVAR CHANGE
12. PROFILE LINE 4 - ADDED STEPDOWN FIX LODKE 820 - ACHIEVE LOWER LNAV AND CIRCLING MINIMUMS
13. REPLACED CHART NOTE "DME/DME RNP-0.3 NA" WITH "PBN REQUIREMENTS NOTE: RNP APCH". - CHANGED PER NAVSPEC REQUIREMENT IAW 8260.19H PARA 8-6-8.
14. NOTES - CHANGED NOTE "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -25°C (-13°F) OR ABOVE 48°C (118°F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -18°C OR ABOVE 54°C" - IAW 8260.19H 8-6-7 S
15. NOTES - CHANGED NOTE "VGSI AND RNAV GLIDEPATH NOT COINCIDENT" TO "VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" - IAW 8260.19H PARA 8-6-9.M.(1).
16. NOTES - CHANGED NOTE "FOR INOPERATIVE ALSF, INCREASE LPV CAT E VISIBILITY TO 3/4 MILE, LNAV/VNAV CAT E VISIBILITY TO 1 3/4 MILE, LNAV CAT E VISIBILITY TO 1 1/2 MILE" TO "FOR INOPERATIVE ALS, INCREASE LPV CAT E VISIBILITY TO RVR 4000, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 5000 AND INCREASE LNAV CAT E VISIBILITY TO 1 3/8 SM." - IAW INOPERATIVE COMPONENTS OR VISUAL AIDS TABLE.
17. ADDITIONAL FLIGHT DATA/PROFILE LINE 5 - "DISTANCE TO THLD FROM 255 HAT: 0.63 NM" CHANGED TO "DISTANCE TO THLD FROM 200 HAT: 0.46 NM" - NEW OBSTACLE EVALUATION YIELDED LOWER HAT
18. ADDITIONAL FLIGHT DATA - VDP CHANGED FROM 1.24 MILES TO 1.22 MILES - NEW TARGETS EVALUATION
19. ALTERNATE MINS - CHANGED FROM STANDARD - CAT E 800-2 ¼ TO STANDARD - CAT D 900-2 3/4, CAT E 900-3 - IAW 8260.3D 3-4-1 A(3).
20. LPV - DA/VIS/HAT ALL CATS CHANGED FROM 317 - ½ - 255 TO 262 - 2400 - 200 - NEW TARGETS EVALUATION/VISCHECK EVAL
21. LNAV/VNAV - DA/VIS/HAT ALL CATS CHANGED FROM 524/1/462 TO 426/3500/364 - NEW TARGETS EVALUATION/VISCHECK EVAL
22. LNAV - VIS CAT A/B/C CHANGED FROM ½ - ½ - ¾ - 1 - 1 TO 2400 - 2400 - 4500 - 4500 - 4500 RESPECTIVELY - NEW VISCHECK EVAL
23. CIRCLING - MDA/VIS/HAA CATS D & E CHANGED FROM 640/2/567 & 720 - 2 ¼ - 647 TO 900 - 2 ¾ - 827 & 960/3/887 RESPECTIVELY - APPLIED NEW CIRCLING CRITERIA, NEW OBSTACLE DATA
24. ADDED "CHART CIRCLING ICON" TO ADDITIONAL FLIGHT DATA - NEW CIRCLING CRITERIA APPLIED
25. ADDED NOTE: WHEN CONTROL TOWER CLOSED, INOPERATIVE TABLE DOES NOT APPLY TO LPV, LNAV/VNAV AND LNAV CATS A/B. - 8260.3H PARA 8-6-11, N(3)
26. MISSED APPROACH INBOUND HOLDING AT OLLER CHANGED FROM 029.82 TO 034.82 - MAGVAR CHANGE
27. FAS DATA CHANGE - FPAP LAT/LONG CHANGED FROM 584003.1300N/1563746.4500W TO 584002.8745N/1563745.9050W - NEW FAS DATA.
28. FAS DATA CHANGE - LENGTH OFFSET/VAL CHANGED FROM 0024/50 TO 0040/35 RESPECTIVELY - NEW LPV HAT IS LESS THAN 250.
29. FAS DATA CHANGE - CRC REMAINDER CHANGED FROM A4D05F08 TO 51CB2D66 - CHANGES TO FPAP LAT/LONG, AND VAL.
30. ADDED CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA (NA WHEN CONTROL TOWER CLOSED) - UPDATED IAW 8260.19H PARA 8-6-11(K)1.
31. ADDED CHART NOTE WHEN CONTROL TOWER CLOSED, LPV, LNAV/VNAV AND LNAV VISIBILITY RVR 5000. - VISCHECK EVAL

11/17/20: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 06/10/20

1. ADDED PLANVIEW NOTE "PROCEDURE NA FOR CAT E ARRIVALS AT EXIPE AND FOMUT" - ADDED AT THE DIRECTION OF THE PRB DUE TO DTA ISSUES.

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:** AK AERO, ZAN, PAKN ATCT, AIRPORT MANAGER

FLIGHT CHECKED BY

DUSTIN CONNER WELSH

Digitally signed by

ALLAN WILL

Nov 20, 2020

OFFICE

FIOG

DATE

09/29/2020

DEVELOPED BY

JOSEPH BLANCO

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Nov 17, 2020

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06/10/2020

APPROVED BY

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Nov 20, 2020

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DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	PAKN
RUNWAY	RW12
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W12A
LTP/FTP LATITUDE	584102.1840N
LTP/FTP LONGITUDE	1563953.0150W
LTP/FTP ELLIPSOIDAL HEIGHT	+00314
FPAP LATITUDE	584002.8745N
FPAP LONGITUDE	1563745.9050W
THRESHOLD CROSSING HEIGHT (TCH)	00055.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0040
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	51CB2D66

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	PA
LTP ORTHOMETRIC HEIGHT	+00183
FPAP ORTHOMETRIC HEIGHT	+00183

