

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (RNP) 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> TED STEVENS ANCHORAGE INTL	<u>AIRPORT ID</u> PANC	<u>PROCEDURE NAME</u> RNAV (RNP) RWY 33	<u>ORIGINAL/AMENDMENT</u> 1A	<u>CITY</u> ANCHORAGE	<u>STATE</u> AK
<u>AIRPORT ELEVATION</u> 151	<u>TDZE</u> 121	<u>SUPERSEDED</u> RNAV (RNP) RWY 33	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 01/03/2019	<u>MAG VAR</u> 16E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2020

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>
HOPER	IAF	TAVUE		TF	FB	1.00	299.04	3.20	6800
TAVUE		SULNE		TF	FB	1.00	298.97	3.90	5500
SULNE		JULIN		RF	FB	1.00	(3.24 NM RADIUS CCW (CFWDD))	4.43	4000
JULIN		JEMOT		RF	FB	1.00	(2.33 NM RADIUS CCW (CFCZD))	3.02	3000
ZIREN	IAF	JEMOT		TF	FB	1.00	146.17	6.00	3000
JEMOT		CAMLO		RF	FB	1.00	(2.22 NM RADIUS CCW (CFGNX))	3.06	2200
WOLAK	IAF	CAMLO		TF	FB	1.00	067.25	6.00	2200
CAMLO		HURKI		RF	FB	1.00	(2.11 NM RADIUS CCW (CFQGG))	3.63	2200
HURKI	IF	FOXON	PFAF	TF	FB	1.00	328.95	3.33	1200
FOXON	PFAF	RW33	MAP	TF	FO	0.30	328.91	3.20	
RW33	MAP	463 MSL		CA			328.91		
463 MSL		MURRS		DF	FB	1.00			
MURRS		BGQ VORTAC		TF	FO	1.00	353.27	17.21	4000



MISSED APPROACH**MAP:**

RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 ON THE RNAV MISSED APPROACH ROUTE TO BGQ VORTAC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:**PROFILE:**

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF (IAF)				
2. PROFILE STARTS AT HURKI								
3. FAC:	328.91	PFAF: FOXON	DIST PFAF TO MAP:	DIST PFAF TO THLD:				
4. MIN ALT: HURKI 2200, FOXON 1200								
5. DIST TO THLD FROM OM:	3.20	MM:	IM:	150 HAT:	342 HAT: 0.89	GS ANT:		
6. MIN GP INCPT:	1200	GP ALT AT PFAF : FOXON 1200			OM:	MM:	IM:	
7. GP ANGLE:	3.00	34:1:	IS NOT CLEAR	20:1:	IS NOT CLEAR	TCH:	60.0	
8. MSA FROM: RW33 8800								

PBN REQUIREMENTS NOTE:RNP AR APCH
RF REQUIRED**NOTES:**

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -17°C OR ABOVE 54°C.

CHART PLANVIEW NOTE: RADAR REQUIRED

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HOPER ON V320-440.

CHART PLANVIEW NOTE AT SULNE: MAX 210 KIAS UNTIL HURKI.

CHART PLANVIEW NOTE AT JEMOT: MAX 210 KIAS UNTIL HURKI.

CHART PLANVIEW NOTE AT CAMLO: MAX 210 KIAS UNTIL HURKI.

ADDITIONAL FLIGHT DATA:

CHART MANDATORY 3000 AT ZIREN

CHART AT/ABOVE 8000 AT HOPER

HOLD N, RT, 168.00 INBOUND



MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD

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
AUTHORIZATION REQUIRED															
RNP 0.11 DA	463	1	342	463	1	342	463	1	342	463	1	342			
RNP 0.20 DA	525	1 1/8	404	525	1 1/8	404	525	1 1/8	404	525	1 1/8	404			
RNP 0.30 DA	687	1 5/8	566	687	1 5/8	566	687	1 5/8	566	687	1 5/8	566			

CHANGES - REASONS

1. ADDITIONAL FLIGHT DATA: REMOVED "WAAS CHANNEL #50442" - RNP PROCEDURES DO NOT CHART WAAS INFO.
2. TERMINAL ROUTES: MISSED APPROACH START CLIMB ALTITUDE CHANGED FROM 342 MSL TO 463 MSL - ENTERED INCORRECTLY ON PREVIOUS AMDT.
3. PROFILE LINE 3: "FAF" CHANGED TO "PFAF: FOXON" - CRITERIA CHANGE.

PDF EDITS:

1. ADDED "STANDARD" TO ALTERNATE MINIMUMS DUE TO SIAP LIMITATION.
2. ADDED "HURKI 2200" AFTER LINE 4. MIN ALT DUE TO SIAP LIMITATION.

COORDINATED WITH:A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZAN, AMGR, ALASKA DOT, ANC APP CON, ATA**FLIGHT CHECKED BY**PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED**DEVELOPED BY**

COLTON CROWDER

APPROVED BY

LONNIE EVERHART

Digitally signed by

COLTON CROWDER

Dec 26, 2018

OFFICE**OFFICE**

AJV-A412

OFFICE

AJV-A41

DATE**DATE**

12/26/2018

DATE

Digitally signed by

MARK D ADAMS

Jan 08, 2019

Digitally signed by

MARK D ADAMS

Jan 08, 2019

TITLE
MANAGERQUALITY
16
CHECKED

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

<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>
TED STEVENS ANCHORAGE INTL	PANC	RNAV (RNP) RWY 33	1A	ANCHORAGE	AK	151	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM
HOPER

TO
TAVUE

RNP DISTANCE PAT MAP HAT HMAS
1.00 3.20

<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	610200.00N/1494254.00W	3449	500	125	5E	1000				PR380 AT1846 AC125	6800
2.TERRAIN	610200.00N/1494254.00W	3249 (3200)								AS1500	4700

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL: STEPDOWN

FROM
TAVUE

TO
SULNE

RNP DISTANCE PAT MAP HAT HMAS
1.00 3.90

<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	610327.00N/1494518.00W	1602	500	125	5E	1000				PR260 AT2513 AC125	5500
4.TERRAIN	610400.00N/1494630.00W	689 (700)								AS1500	2200

COMPUTATIONS

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

SEGMENT REMARKS:





TO
JEMOT

HMAS

COMPUTATIONS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL: STEPDOWN

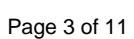
TO
CAMLO

HMAS

COMPUTATIONS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



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HMAS

RF CENTER FIX/DISTANCE

HMAS

RF CENTER FIX/DISTANCE

QUALITY
16
CHECKED

RF CENTER FIX/DISTANCERF CENTER FIX/DISTANCE

QUALITY
16
CHECKED

QUALITY
16
CHECKED

"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	STRAIGHT-IN RWY 33		
20:1			
124 POLE (02-020542) 611018.02N/1495959.08W (6.00)		124 NAVAID (02-020544) 611017.26N/1495959.42W (4.14)	
124 TERRAIN (02-034825) 611016.48N/1495959.07W (0.27)			
Final Type	STRAIGHT-IN RWY 33		
34:1			
212 TREE (02-039374) 610949.61N/1495934.43W (3.88)		203 TREE (02-037160) 610950.58N/1495949.00W (3.16)	
247 TREE (02-195952) 610939.10N/1495918.33W (2.52)		125 NAVAID (02-020540) 611015.90N/1495956.37W (0.94)	
200 TREE (02-250408) 610950.38N/1495951.38W (0.48)		188 TREE (02-037454) 610954.42N/1495951.71W (0.25)	

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PART C: GENERAL REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
CHART PLANVIEW NOTE: RADAR REQUIRED PER FPT REQUEST



<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>
TED STEVENS ANCHORAGE INTL	PANC	RNAV (RNP) RWY 33	1A	ANCHORAGE	AK	151	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	2.89				
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	0.60				
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	344.91				
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	124				
DISTANCE FROM	THLD	TO 1500FT POINT	5.39				
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	2.00				
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	344.95				
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	128				
THRESHOLD COORDINATES (IF STR-IN)	611018.31N/1495955.94W						
ARP COORDINATES	611026.96N/1495953.48W						
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 15 DISTANCE 1.61 NM						
FAF COORDINATES	610715.32N/1495813.74W						
FIX NAME COORDINATES							
REMARKS							
THLD DISPLACED 266FT, ACTUAL COORDINATES: 611015.78N/1495954.53W.							



<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>
TED STEVENS ANCHORAGE INTL	PANC	RNAV (RNP) RWY 33	1A	ANCHORAGE	AK	151	RNAV
PART E: PREPARED BY							
<u>NAME</u>				<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>	
COLTON CROWDER				AJV-A412	12/26/2018	AERONAUTICAL INFORMATION SPECIALIST	

