

**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> TED STEVENS ANCHORAGE INTL	<u>AIRPORT ID</u> PANC	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 15	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> ANCHORAGE	<u>STATE</u> AK
<u>AIRPORT ELEVATION</u> 151	<u>TDZE</u> 151	<u>SUPERSEDED</u> RNAV (GPS) RWY 15	<u>ORIGINAL/AMENDMENT</u> 2D	<u>DATED</u> 02/01/2018	<u>MAG VAR</u> 16E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 10 OCTOBER 2019	<u>REQUIRED EFFECTIVE DATE</u> 10/10/2019	<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>
IVANN	IAF	CARDD		TF	FB	1.00	075.12	13.24	3000
TAGER	IAF	CARDD		TF	FB	1.00	134.62	20.31	3000
BGQ VORTAC	IAF	CARDD		TF	FB	1.00	184.39	12.27	3000
CARDD	IF	KANSY		TF	FB	1.00	148.78	7.04	1600
KANSY	FAF	RW15	MAP	TF	FO	0.30	148.84	4.09	
RW15	MAP	351 MSL		CA			148.84		
351 MSL		ZUXAN		DF	FB	1.00			
ZUXAN		JUKEP		TF	FO	1.00	229.35	12.52	3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW15

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT ZUXAN AND ON TRACK 229.35 TO JUKEP AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2.	PROFILE STARTS AT CARDD				
3. FAC:	148.84	FAF: KANSY	DIST FAF TO MAP: 4.09	DIST FAF TO THLD: 4.09	
4. MIN ALT:	CARDD 3000, KANSY 1600				
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	200 HAT: 0.41	GS ANT:
6. MIN GP INCPT: 1600	GP ALT AT FAF : KANSY 1600			OM:	MM: IM:
7. GP ANGLE: 3.20	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 60.0		
8. MSA FROM:	RW15 8700				

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV, LNAV/VNAV.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BGQ VORTAC ON V438-456 NORTHBOUND AND T227 NORTHEAST BOUND.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT IVANN ON V440 WESTBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT TAGER ON V436 NORTHWEST.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV CAT C/D VISIBILITY TO 1 3/8 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 0.80 NM TO RW15*
*LNAV ONLY
WAAS CHANNEL #90115
REFERENCE PATH ID: W15A
FAS OBST: 300 AAO 611520N/1500129W.
310 AAO 611546N/1500202W.
HOLD NE, RT, 210.00 INBOUND
LTP HAE: 52.1 M



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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/2

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	351	4000	200	351	4000	200	401	4000	250	401	4000	250			
LNAV/VNAV DA	404	4000	253	404	4000	253	404	4000	253	404	4000	253			
LNAV MDA	600	4000	449	600	4000	449	600	6000	449	600	6000	449			
CIRCLING	700	1	549	700	1	549	800	1 3/4	649	920	2 1/2	769			

CHANGES - REASONS

1. DISTANCE FROM PFAF TO THLD CHANGED FROM 4.1 TO 4.09 - PFAF MOVED.
2. DECREASED LPV DA/HAT CATS A/B FROM 418/267 TO 351/200, DECREASED LPV DA/HAT CATS C/D FROM 418/467 TO 401/250, INCREASED LNAV/VNAV DA/HAT ALL CATS FROM 401/250 TO 404/253, INCREASED LNAV MDA/HAA ALL CATS FROM 500/349 TO 600/449 - CURRENT OBSTACLES.
3. CHANGED LNAV CAT C/D VISIBILITY FROM 4500 TO 6000 - HIGHER MDA/HAA DUE TO NEW OBSTACLE.
4. INCREASED CIRCLING CAT C MDA/HAA/VISIBILITY FROM 700/549/1 1/2 TO 800/649/1 3/4, INCREASED CIRCLING CAT D MDA/HAA/VISIBILITY FROM 800/649/2 TO 920/769/2 1/2 - CURRENT OBSTACLES AND APPLIED NEW CIRCLING CRITERIA.
5. ADDED CHART NOTE "CHART CIRCLING ICON" - NEW CIRCLING CRITERIA APPLIED.
6. ADDED PBN EQUIPMENT REQUIREMENTS NOTE "RNP APCH" - IAW 8260.19H, PARAGRAPH 8-6-8.B(1).
7. CHANGED LINE 8 MSA FROM 8900 TO 8700- NEW CONTROLLING OBSTACLE.
8. CHANGED FINAL COURSE FROM "148.85" TO "148.84" - NEW LTP AND PFAF LOCATION.
9. CHANGED "CHART NOTE: FOR INOPERATIVE ODAL, INCREASE LPV ALL CATS VISIBILITY TO RVR 4500, AND LNAV CAT C/D VISIBILITY TO RVR 5500" TO "CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV CAT C/D VISIBILITY TO 1 3/8 SM" - CURRENT 8260.3D CRITERIA.
10. CHANGED LINE 3, DIST FAF TO MAP AND DIST FAF TO THLD FROM 4.10 TO 4.09 - NEW PFAF LOCATION.
11. CHANGED CHART NOTE "CHART VDP AT 0.81 NM TO RW15" TO "CHART VDP AT 0.80 NM TO RW15" - LTP/FTP LAT/LONG CHANGED.
12. CHANGED CHART PLANVIEW NOTE FROM "PROCEDURE NA FOR ARRIVALS AT BGQ VORTAC ON V438-456 NORTHBOUND" TO "PROCEDURE NA FOR ARRIVALS AT BGQ VORTAC ON V438-456 NORTHBOUND AND T227 NORTHEAST BOUND" - CORRECTED TO AVOID ALL TURNS GREATER THAN 120 DEGREES.
13. CHANGED MISSED APPROACH ALTITUDE FROM 2500 TO 3000 - ATC REQUEST.
14. ADDITIONAL FLIGHT DATA UPDATED "LTP HAE: 51.9" TO "LTP HAE: 52.1M" - LTP/FTP ELLIPSOIDAL HEIGHT CHANGED FROM +00519 TO +00521.
15. FAS DATA CRC REMAINDER CHANGED FROM E1C44744 TO 6A71FE76- LTP/FTP LAT/LONG CHANGED FROM 611158.0700N/1500051.7700W TO 611159.0295N/1500052.3095W AND LTP/FTP ELLIPSOIDAL HEIGHT CHANGED FROM +00519 TO +00521, FPAP LAT/LONG CHANGED FROM 611015.7800N/1495954.5300W TO 611015.75N/1495954.49W, AND TCH CHANGED FROM 58 TO 60.
16. REMOVED CHART NOTE DME/DME RNP-0.3 NA - IAW 8260.19H, PARAGRAPH 8-6-8.B(1).
17. REMOVED CHART NOTE "RWY 15 HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NOT AUTHORIZED" - NO 20:1 OR 34:1 PENETRATIONS EXIST.
18. REMOVED FAHRENHEIT VALUE FROM BARO-VNAV NOTE AND CHANGED LOW TEMP FROM -25C TO -21C - IAW 8260.19H, 8-6-9.S.
19. CHANGED MISSED HOLDING ALTITUDE FROM 2500 TO 3000 - ATC REQUEST.
20. CHANGED 34:1 IS NOT CLEAR TO 34:1 IS CLEAR, ADDED 20:1 IS CLEAR -IAW 8260.19H.
21. UPDATED DIST HAT TO THLD FROM 250 HAT: 0.57 TO 200 HAT: 0.41 - LOWERED HAT.
22. CHANGED TCH FROM 58 TO 60 - DESIGN TCH UPDATED IN AIRNAV.
23. CHANGED CHART NOTE FROM "INOPERATIVE TABLE DOES NOT APPLY TO LNAV/VNAV" TO "... DOES NOT APPLY TO LPV, LNAV/VNAV" - RE-RAN VIS CHECK FOR LPV WITH NEW TCH AND DA/HAT.
24. FAS OBST CHANGED FROM 243' TREE TO 300' AAO - MAP STUDY INDICATES 300' AAO AS CONTROLLING OBSTACLE.
25. CA ALTITUDE CHANGED FROM 401 TO 351 - LOWEST HAT CHANGED FROM 401 TO 351.
26. CHANGED 7:1 OBSTACLE LISTED IN ADDITIONAL FLIGHT DATA FROM 310 AAO 611548N/1500158W TO 310 AAO 611546N/1500202W - UPDATED LOCATION FOUND IN MAP STUDY.



COORDINATED WITH:

~~A4A~~



~~ALPA~~



~~AOPA~~



~~APA~~



~~HAI~~



~~NBAA~~



OTHER:

ZAN, AMGR, ALASKA DOT, ANC APP CON, ANC ATCT

FLIGHT CHECKED BY

PENDING

Digitally signed by

DAVID DANNER

Aug 09, 2019

OFFICE

DATE

DEVELOPED BY

DAVID DANNER (DALE SICKELS)

Digitally signed by

DAVID DANNER

Aug 09, 2019

OFFICE

AJV-A421

DATE

05/07/2019

APPROVED BY

MARLON ROBINSON

Digitally signed by

DAVID DANNER

Aug 09, 2019

OFFICE

AJV-A420

DATE

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	PANC
RUNWAY	RW15
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W15A
LTP/FTP LATITUDE	611159.0295N
LTP/FTP LONGITUDE	1500052.3095W
LTP/FTP ELLIPSOIDAL HEIGHT	+00521
FPAP LATITUDE	611015.7500N
FPAP LONGITUDE	1495954.4900W
THRESHOLD CROSSING HEIGHT (TCH)	00060.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.20
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	6A71FE76

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	PA
LTP ORTHOMETRIC HEIGHT	+00461
FPAP ORTHOMETRIC HEIGHT	+00461

