

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TACAN STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.23

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> PAFA	<u>PROCEDURE NAME</u> TACAN RWY 20R	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> FAIRBANKS	<u>STATE</u> AK		
<u>AIRPORT ELEVATION</u> 439	<u>TDZE</u> 439	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u> NONE	<u>DATED</u>	<u>MAG VAR</u> 21E	<u>EPOCH YEAR</u> 2010
<u>FACILITY</u> FAI VORTAC	<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>
FAI VORTAC		CENTS/10.01 DME					047.00	10.01	4000
CUN NDB		CENTS/10.01 DME					272.00	3.70	4000

MISSED APPROACH

MAP:

4.67 NM AFTER CENTS/FAI 10.01 DME OR AT ILTAF/FAI 5.34 DME

MISSED APPROACH INSTRUCTIONS:

CLIMBING LEFT TURN TO 4000 ON HEADING 160 AND FAI VORTAC R-107 TO KRNL/FAI 13.00 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT R SIDE OF COURSE 047.00 OUTBOUND 4000 FT WITHIN 15 MILES OF CENTS/10.01 DME (IAF)

2.

3. FAC: 227.00 FAF: CENTS/10.01 DME DIST FAF TO MAP: 4.67 DIST FAF TO THLD: 5.34

4. MIN ALT: DISTN/13.04 DME 3300, CENTS/10.01 DME 2200, HERIL/7.18 DME 1300

8. MSA FROM: FAI VORTAC 4400, ESA W/IN 100 NM 16000

EQUIPMENT REQUIREMENTS NOTES:

NOTES:

CHART NOTE: CIRCLING NA TO RWYS 2W AND 20W.



CHART NOTE: CIRCLING NA W OF RWY 2L-20R.
CHART NOTE: RWY 20R HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NOT AUTHORIZED.
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

HOLD E, RT, 286.67 INBOUND.
CHART FAS OBST: 630 TOWER (02-020202) 645147N/1474515W.
CHART 1239 TOWER 645147N/1473836W.
FAC CROSSES RWY C/L EXTENDED 2108 FT FROM THLD.
CHART CIRCLING ICON.
CENTS TO RW20R: 3.00/60.

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

ALTERNATE: NA ☐ STANDARD - CAT E 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
S-20R	880	5500	441	880	5500	441	880	1 3/8	441	880	1 3/8	441	1000	1 5/8	561
CIRCLING	880	1	441	900	1	461	900	1 1/2	461	1020	2	581	1120	2 1/2	681

CHANGES - REASONS

04/17/2023: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 01/24/2022.
1. TERMINAL ROUTES: CUN NDB TO CENTS/10.01 COURSE CHANGED FROM 238.89 TO 272.

Digitally signed by
ERIC N SUSKI
Apr 18, 2023

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZAN, FAI APCH CON, FAI ATCT, AMGR, ATA

FLIGHT CHECKED BY
JEREMY CURTIS LEIGHTON

OFFICE
FIOG

DATE
04/07/2023

Digitally signed by
ERIC N SUSKI
Apr 18, 2023

DEVELOPED BY
DONALD H. LANIER (COLE NESBITT)

OFFICE
AJV-A431

DATE
01/24/2022

Digitally signed by
ERIC N SUSKI
Apr 18, 2023

APPROVED BY
LONNIE EVERHART

OFFICE
AJV-A430

DATE

Digitally signed by
ERIC N SUSKI
Apr 18, 2023

TITLE
MANAGER



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

<u>AIRPORT ID</u> PAFA	<u>PROCEDURE NAME</u> TACAN RWY 20R	<u>AMDT NO.</u> ORIG	<u>CITY</u> FAIRBANKS	<u>STATE</u> AK	<u>AIRPORT ELEVATION</u> 439	<u>FACILITY</u> FAI VORTAC
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM
FAI VORTAC

TO
CENTS/10.01 DME

<u>RNP</u>	<u>DISTANCE</u> 10.01	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<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>
TOWER (02-000415)	645518.78N/1474303.65W		1727	20	3	1A	2000				AT273	4000
TERRAIN	645145.00N/1480400.00W		1706 (1700)								AS1500	3200

COMPUTATIONS

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

SEGMENT REMARKS:

FEEDER

FROM
CUN NDB

TO
CENTS/10.01 DME

<u>RNP</u>	<u>DISTANCE</u> 3.70	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<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>
AAO	645412.00N/1473118.00W		1267	164	98	4E	2000				AT733	4000
TERRAIN	645148.00N/1473836.00W		1102 (1100)								AS1500	2600

COMPUTATIONS

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

SEGMENT REMARKS:



INTERMEDIATE: PT

FROM
15 NM

TO
DISTN/13.04 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	11.97											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	645836.00N/1471712.00W		2517	164	98	4E	500				AC98	3200
TERRAIN	645836.00N/1471712.00W		2316 (2300)								AS1000	3300

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

SEGMENT REMARKS:

INTERMEDIATE: PT STEPDOWN

FROM
DISTN/13.04 DME

TO
CENTS/10.01 DME

RNP	DISTANCE 3.03	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	645457.00N/1473348.00W		1621	164	98	4E	500				AC98 SA-99	2200
TERRAIN	645148.00N/1473836.00W		1102 (1100)								AS1000	2100

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

SEGMENT REMARKS:



FINAL

FROM
CENTS/10.01 DME

TO
HERIL/7.18 DME

<u>RNP</u>	<u>DISTANCE</u> 2.83	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<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>
TOWER (02-280855)	645106.50N/1474145.60W		638	250	50	4D	250				AC50 DG362	1300

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

FINAL: STEPDOWN

FROM
HERIL/7.18 DME

TO
4.67 NM AFTER CENTS/FAI 10.01 DME OR AT ILTAF/FAI 5.34 DME

<u>RNP</u>	<u>DISTANCE</u> 1.85	<u>PAT</u>	<u>MAP</u> 4.67 NM AFTER CENTS/FAI 10.01 DME OR AT ILTAF/FAI 5.34 DME	<u>HAT</u> 441(ABCD), 561(E)			<u>HMAS</u>					
<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>
TOWER (02-020202)	645147.49N/1474515.34W		630	20	3	1A	250					880
CAT E: TOWER (02-020202)	645147.49N/1474515.34W		630	20	3	1A	250				MA120	1000

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



PROCEDURE TURN

FROM
CENTS/10.01 DME

TO
15 NM

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	645751.00N/1464530.00W		2687	164	98	4E	1000				AT203 PR110	4000
TERRAIN	645751.00N/1464530.00W		2486 (2500)								AS1000	3500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH

FROM
4.67 NM AFTER CENTS/FAI 10.01 DME OR AT ILTAF/FAI 5.34 DME

TO
KRNKL/FAI 13.00 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 750					
<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>
TREE	645006.00N/1475436.00W		959	164	98	4E		ASC				4000
TREE	645006.00N/1475436.00W		959	164	98	4E	1000					2000
TERRAIN	645006.00N/1475436.00W		898 (900)								AS1500	2400

COMPUTATIONS

N/A

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID

PAFA

PROCEDURE NAME

TACAN RWY 20R

AMDT NO.

ORIG

CITY

FAIRBANKS

STATE

AK

AIRPORT ELEVATION

439

FACILITY

FAI VORTAC

CIRCLING

☒ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☒ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TOWER (02-020190)	645017.21N/1474822.21W	1.30	441	579	50	20	2C	300			880
CATEGORY B											
TOWER (02-020190)	645017.21N/1474822.21W	1.82	461	579	50	20	2C	300		HAA	900
CATEGORY C											
TOWER (02-023015)	645015.61N/1474514.91W	2.86	461	598	50	20	2C	300			900
CATEGORY D											
AAO	645144.38N/1474605.65W	3.74	581	660	250	50	4D	300		AC50	1020
CATEGORY E											
AAO	645326.14N/1474528.54W	4.67	681	760	250	50	4D	300		AC50	1120

CIRCLING REMARKS:

MSA

CENTER

FAI VORTAC

RADIUS

25

MSA REMARKS:

ESA

CENTER

FAI VORTAC

RADIUS

100

ESA REMARKS:



<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>
PAFA	TACAN RWY 20R	ORIG	FAIRBANKS	AK	439	FAI VORTAC

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
FAI APP CON, FAI TOWER, ZAN ARTCC

WX SERVICE ASOS	LOCATION PAFA	HRS OPERATION 24	ALTIMETER SOURCE PAFA	DISTANCE 0	SERVICE-A Y	ADJUSTMENTS 0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS

WX REMARKS:

PRIMARY NAVAID FAI VORTAC	MONITOR POINT POCC	HRS OPERATION 24	CAT 1
APPROACH AND RUNWAY LIGHTING SYSTEM		RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW02R - MIRL, PAPI-4L		NPI-G	
RW20L - MIRL, REIL, PAPI-4L		NPI-G	
RW02L - TDZ, ALSF-2, HIRL, C/LINE, PAPI-4L		PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW20R - MALSR, HIRL, C/LINE, PAPI-4L		PIR-G	APPROACH, MIDPOINT, ROLL OUT

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE 3.00	TCH 73.9
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input type="checkbox"/>	2108 FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	750
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE		

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
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CRITICAL TEMPERATURE REMARKS:



"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	TACAN RWY 20R
34:1	
503 TREE (02-267354) 644943.96N/1474930.53W (1.03)	

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

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

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VEGETATION 60 FT WITHIN AAO EXEMPT AREA PER AIRPORT PROCEDURE HISTORICAL DATA.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1239 TOWER (02-023105) 645147.26N/1473836.32W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



AIRPORT ID PAFA	PROCEDURE NAME TACAN RWY 20R	AMDT NO. ORIG	CITY FAIRBANKS	STATE AK	AIRPORT ELEVATION 439	FACILITY FAI VORTAC
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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	MAP	TO 1000FT POINT	2.20
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	2.75
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	248.00
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	600
DISTANCE FROM	MAP	TO 1500FT POINT	4.00
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.93
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	248.00
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	600

THRESHOLD
COORDINATES
(IF STR-IN)

644935.10N/1475031.82W

ARP COORDINATES

644855.28N/1475124.00W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 2L DISTANCE 1.07 NM

FAF
COORDINATES

645143.11N/1473904.16W

FIX NAME
COORDINATES

REMARKS

THLD DISPLACED 750FT, ACTUAL COORDINATES: 644940.91N/1475021.13W.

QUALITY
45
CHECKED

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

Electronic Version

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PART E: PREPARED BY

NAME DONALD H. LANIER (COLE NESBITT)	OFFICE AJV-A431	DATE 01/24/2022	TITLE AERONAUTICAL INFORMATION SPECIALIST
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