

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> D14	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 14	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> FERTILE	<u>STATE</u> MN		
<u>AIRPORT ELEVATION</u> 1137	<u>TDZE</u> 1137	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u> NONE	<u>DATED</u>	<u>MAG VAR</u> 5E	<u>EPOCH YEAR</u> 1985
<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>
ADOMY	IF/IAF	BICLA		TF	FB	1.00	138.86	6.23	2800
BICLA	FAF	RW14	MAP	TF	FO	0.30	138.93	4.80	
RW14	MAP	1537 MSL		CA			138.93		
1537 MSL		CALTU		DF	FO	1.00			3200

MISSED APPROACH

MAP:

LNAV: RW14

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3200 DIRECT CALTU AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD NW ADOMY, RT, 138.86 INBOUND, 3200 FT. IN LIEU OF PT (IAF), MAX 6000.
- FAC: 138.93 FAF: BICLA DIST FAF TO MAP: 4.80 DIST FAF TO THLD: 4.80
- MIN ALT: ADOMY 3200, BICLA 2800
- DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT:
- MIN GP INCPT: GP ALT AT FAF : OM: MM: IM:
- GP ANGLE: 34:1: IS CLEAR 20:1: IS CLEAR TCH:
- MSA FROM: RW14 3000



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: USE MAHNOMEN ALTIMETER SETTING.**ADDITIONAL FLIGHT DATA:**CHART MAHNOMEN COUNTY AWOS-3PT.
HOLD SE, LT, 319.14 INBOUND.
FAS OBST: 1275 AAO 473429N/0961935W.
BICLA TO RW14: 3.20/40.**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
LNAV MDA	1600	1	463	1600	1	463		NA			NA				
CIRCLING	1660	1	523	1760	1	623		NA			NA				

CHANGES - REASONS

ORIGINAL PROCEDURE, VFR TO IFR AIRPORT.

COORDINATED WITH:A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZMP, AMGR**FLIGHT CHECKED BY**

MICHAEL A GREENWOOD

Digitally signed by

ERIC N SUSKI

Jan 30, 2023

OFFICE

FPO

DATE

01/26/2023

DEVELOPED BY

RICHARD CHRISTENSEN

Digitally signed by

RICHARD E CHRISTENSEN

Dec 08, 2022

OFFICE

AJV-A431

DATE

11/28/2022

APPROVED BY

JOHNNIE BAKER

Digitally signed by

ERIC N SUSKI

Dec 14, 2022

OFFICE

AJV-A430

DATE**TITLE**
MANAGER

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

<u>AIRPORT ID</u> D14	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 14	<u>AMDT NO.</u> ORIG	<u>CITY</u> FERTILE	<u>STATE</u> MN	<u>AIRPORT ELEVATION</u> 1137	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INTERMEDIATE

FROM
ADOMY (IF/IAF)

TO
BICLA

<u>RNP</u>	<u>DISTANCE</u> 6.23	<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	474009.00N/0962133.00W		1273	164	98	4E	500				AC98 AT929	2800
TERRAIN	474009.00N/0962133.00W		1072 (1100)								AS1500	2600

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV

FROM
BICLA

TO
RW14

<u>RNP</u>	<u>DISTANCE</u> 4.80	<u>PAT</u>	<u>MAP</u> RW14	<u>HAT</u> 463	<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	473429.48N/0961934.54W		1275	50	20	2C	250				RA68	1600

COMPUTATIONS

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

SEGMENT REMARKS:



HOLD-IN-LIEU OF PT

FROM

ADOMY

TO

P-5

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
P-5												
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT	
TOWER (27-000525)	474528.00N/0963546.00W	1286	250	50	4D	1000				AT914	3200	
TERRAIN	474139.00N/0962142.00W	1079 (1100)								AS1500	2600	

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

MISSED APPROACH : LNAV

FROM

RW14

TO

CALTU

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
					1432							
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT	
							ASC				3200	
TOWER (27-080753)	472722.86N/0960758.17W	1535	250	50	4D	1000					2600	
TERRAIN	472809.00N/0961154.00W	1240 (1200)								AS1500	2700	

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

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
ELEVATOR (27-087607)	473226.87N/0961710.48W	1.30	523	1277	20	3	1A	300		RA68	1660
CATEGORY B											
AAO	473335.50N/0961502.82W	1.85	623	1375	50	20	2C	300		RA68	1760

CIRCLING REMARKS:

MSA

CENTER	RADIUS
RW14	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (27-001089)	473137.13N/0953552.10W	088	28.4	1966	250	50	4D	1000			3000

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ZMP ARTCC

<u>WX SERVICE</u> AWOS-3PT	<u>LOCATION</u> K3N8	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> K3N8	<u>DISTANCE</u> 22.94	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 68
<u>BACK-UP WX SERVICE</u> AWOS-3	<u>LOCATION</u> KFSE	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KFSE	<u>DISTANCE</u> 21.21	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 69

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KD14 1137, K3N8 1243
RA = 67.7

RASS PRESSURE PATTERNS THE SAME
KD14 1137, KFSE 1279
RA = 68.7

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW14 - LIRL (PCL), PAPI-2L (PCL)		BSC-F	
RW32 - LIRL (PCL), PAPI-2L (PCL)		BSC-F	

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.20	<u>TCH</u> 26.7
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FINAL APPROACH COURSE AIMING

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

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS



HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

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

<u>PENETRATIONS REMARKS:</u>

PART C: GENERAL REMARKS:
VDP NOT ESTABLISHED - REMOTE PRIMARY ALTIMETER.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
100 FT VEGETATION USED PER FPT.
CONTINGENCY NOTE:
WHEN MAHNOMEN ALTIMETER SETTING NOT RECEIVED, USE FOSSTON ALTIMETER SETTING AND INCREASE ALL MDAS 20 FT.
ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



PART D: AIRSPACE

DOCKET # 22-AGL-15

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	2.80
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	143.93
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1200
DISTANCE FROM	THLD	TO 1500FT POINT	4.60
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	143.93
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1200

THRESHOLD
COORDINATES
(IF STR-IN) 473318.66N/0961744.62W

ARP COORDINATES 473306.69N/0961731.76W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP RUNWAY 14 DISTANCE 0.25 NM

FAF
COORDINATES 473711.34N/0962154.91W

FIX NAME
COORDINATES

REMARKS



PART E: PREPARED BY

<u>NAME</u> RICHARD CHRISTENSEN	<u>OFFICE</u> AJV-A431	<u>DATE</u> 11/28/2022	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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