

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> 48Y	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 15	<u>ORIGINAL/AMENDMENT</u> ORIG-C	<u>CITY</u> PINECREEK	<u>STATE</u> MN		
<u>AIRPORT ELEVATION</u> 1082	<u>TDZE</u> 1082	<u>SUPERSEDED</u> RNAV (GPS) RWY 15	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>DATED</u> 07/18/2019	<u>MAG VAR</u> 5E	<u>EPOCH YEAR</u> 1995
<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>
COLTU	IF/IAF	RAROE		TF	FB	1.00	146.74	4.20	2800
RAROE	FAF	JIRMA/2.30 NM TO RW15		TF	FB	0.30	146.78	2.97	
JIRMA/2.30 NM TO RW15		RW15	MAP	TF	FO	0.30	146.78	2.30	
RW15	MAP	1460 MSL		CA			146.78		
1460 MSL		OTBEE		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LNAV: RW15

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT OTBEE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
10
CHECKED

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD NW COLTU, RT, 146.74 INBOUND, 3700 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 146.78FAF: RAROE

DIST FAF TO MAP: 5.27

DIST FAF TO THLD: 5.27

4. MIN ALT: COLTU 3700, RAROE 2800, JIRMA/2.30 NM TO RW15 1840

5. DIST TO THLD FROM OM:MM:IM:150 HAT:GS ANT:

6. MIN GP INCPT:GP ALT AT FAF :OM:MM:IM:

7. GP ANGLE:34:1: IS CLEAR20:1: IS CLEARTCH:

8. MSA FROM: RW15 2700

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: USE ROSEAU ALTIMETER SETTING; WHEN NOT RECEIVED, USE WARROAD ALTIMETER SETTING AND INCREASE ALL MDA 40 FEET.

ADDITIONAL FLIGHT DATA:

CHART US CANDIAN BORDER SUBDUED.
HOLD SE, RT, 326.91 INBOUND.
CHART FAS OBST: 1158 TREE (27-031402) 490152N/0960030W.
RAROE TO RW15: 3.00/40.

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	1460	1	378	1460	1	378		NA			NA				

CHANGES - REASONS

1. TERMINAL ROUTES: CHANGED SDF TO MAP COURSE FROM 146.81 TO 146.78 - UPDATED TO CORRECT COURSE.
2. TERMINAL ROUTES: CHANGED MAP TO 1460 MSL COURSE FROM 146.81 TO 146.78 - UPDATED TO CORRECT COURSE.
3. PROFILE LINE 2: ADDED MAX HOLD-IN-LIEU ALTITUDE OF 6000 - 8260.19I, 8-6-7B(2).
4. PROFILE LINE 7: CHANGED 34:1 FROM "IS NOT CLEAR" TO " IS CLEAR" AND ADDED 20:1 IS CLEAR - NO PENETRATIONS EXIST.
5. PBN REQUIREMENTS NOTE: CHANGED FROM "CHART: RNP APCH" TO "RNP APCH - GPS" - 8260.19I, 8-6-8B(2).
6. REMOVED CHART PLANVIEW NOTE: "NOPT FOR ARRIVAL AT COLTU ON V175 SOUTHEAST BOUND" - COLTU NO LONGER ON AIRWAY.
7. REMOVED CHART NOTE: FROM "RWY 15 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" - NO 20:1 PENETRATIONS EXIST.
8. ADDITIONAL FLIGHT DATA: CHANGED CHART FAS OBST FROM "1158 TREE 490152N/0960030W" TO "1158 TREE (27-031402) 490152N/0960030W" - PER 8260.19I, 8-6-10C.



COORDINATED WITH:

A4A ☐ **ALPA** ☐ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZMP, AMGR

FLIGHT CHECKED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE
FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

OFFICE

Digitally signed by

DATE

CASIMIR L TABAKA

DEVELOPED BY

CASIMIR L. TABAKA (SILVIA YOUNG)

Digitally signed by

CASIMIR L TABAKA

May 25, 2023

OFFICE

AJV-A432

May 25, 2023

DATE

12/13/2022

APPROVED BY

CASIMIR TABAKA

Digitally signed by

CASIMIR L TABAKA

May 25, 2023

OFFICE

AJV-A432

DATE

TITLE

MANAGER



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

<u>AIRPORT ID</u> 48Y	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 15	<u>AMDT NO.</u> ORIG-C	<u>CITY</u> PINECREEK	<u>STATE</u> MN	<u>AIRPORT ELEVATION</u> 1082	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INTERMEDIATE

FROM COLTU (IF/IAF) TO RAROE

<u>RNP</u>	<u>DISTANCE</u> 4.20	<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	490751.00N/0960512.00W	1477	164	98	4E	500				AC125	2200
												TERRAIN	490751.00N/0960512.00W	1277 (1300)								AS1500	2800

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV

FROM RAROE TO JIRMA/2.30 NM TO RW15

<u>RNP</u>	<u>DISTANCE</u> 2.97	<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	490509.00N/0960254.00W	1388	164	98	4E	250				AC98 RA77 DG27	1840

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY
10
CHECKED

FINAL: LNAV STEPDOWN

FROM

JIRMA/2.30 NM TO RW15

TO

RW15

<u>RNP</u>	<u>DISTANCE</u> 2.30	<u>PAT</u>	<u>MAP</u> RW15	<u>HAT</u> 378			<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>
TREE (27-031402)	490152.11N/0960029.54W		1158	20	3	1A	250				RA37	1460

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

HOLD-IN-LIEU OF PT

FROM

COLTU

TO

P-5

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u> P-5	<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 (CA-004394)	491546.00N/0960805.00W		1590	250	50	4D	300				AT1810	3700
TERRAIN	490751.00N/0960512.00W		1277 (1300)								AS1500	2800

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

RW15

TO

OTBEE

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1323					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
AAO	485124.00N/0955409.00W		1267	164	98	4E	1000					2300
TERRAIN	490012.00N/0955903.00W		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:

CIRCLING

☐ ALL CATS

☐ CAT A

☐ CAT B

☐ CAT C

☐ CAT D

☐ CAT E

☒ NOT AUTHORIZED

MSA

CENTER

RW15

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TWR (CA-004752)	491837.00N/0960902.00W	341	19.6	1670	250	50	4D	1000			2700

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ZMP ARTCC

<u>WX SERVICE</u> AWOS-3	<u>LOCATION</u> KROX	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KROX	<u>DISTANCE</u> 14.14	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 37
<u>BACK-UP WX SERVICE</u> AWOS-3	<u>LOCATION</u> KRRT	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KRRT	<u>DISTANCE</u> 25.21	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 60

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
K48Y 1082, KROX 1053, KRRT 1076
RA = 36.9; 59.2; 59.2-36.9=22.4.

<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>
RW15 - MIRL (PCL)		NPI-F	
RW33 - MIRL (PCL)		NPI-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>	<u>TCH</u>
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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

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:
VDP NOT ESTABLISHED - REMOTE PRIMARY ALTIMETER.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
TAA NOT USED PER FPT.
CANADIAN AIRSPACE LETTER ATTACHED.
LP NOT AUTHORIZED - 20 FT REDUCTION NOT GAINED.



<div>AIRPORT ID</div> <div>48Y</div>	<div>PROCEDURE NAME</div> <div>RNAV (GPS) RWY 15</div>	<div>AMDT NO.</div> <div>ORIG-C</div>	<div>CITY</div> <div>PINECREEK</div>	<div>STATE</div> <div>MN</div>	<div>AIRPORT ELEVATION</div> <div>1082</div>	<div>FACILITY</div> <div>RNAV</div>
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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	THLD	TO 1000FT POINT	3.27
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	151.78
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1200
DISTANCE FROM	THLD	TO 1500FT POINT	5.07
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	151.78
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1200

THRESHOLD COORDINATES (IF STR-IN)

490010.65N/0955907.18W

ARP COORDINATES

485956.31N/0955855.51W

RUNWAY APCH END AND DIST FURTHEST FROM ARP

RUNWAY 33 DISTANCE 0.27 NM

FAF COORDINATES

490449.00N/0960254.15W

FIX NAME COORDINATES

REMARKS

QUALITY

10

CHECKED

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

Electronic Version

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PART E: PREPARED BY

<u>NAME</u> CASIMIR L. TABAKA (SILVIA YOUNG)	<u>OFFICE</u> AJV-A432	<u>DATE</u> 12/13/2022	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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