

**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> CLOQUET CARLTON COUNTY	<u>AIRPORT ID</u> COQ	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 36	<u>ORIGINAL/AMENDMENT</u> 1B	<u>CITY</u> CLOQUET	<u>STATE</u> MN	
<u>AIRPORT ELEVATION</u> 1279	<u>TDZE</u> 1279	<u>SUPERSEDED</u> RNAV (GPS) RWY 35	<u>ORIGINAL/AMENDMENT</u> 1A	<u>DATED</u> 01/08/2015	<u>MAG VAR</u> 1W	<u>EPOCH YEAR</u> 2015
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 10 SEPTEMBER 2020	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

**TERMINAL ROUTES**

<u><b>FROM</b></u>	<u><b>FIX TYPE</b></u>	<u><b>TO</b></u>	<u><b>FIX TYPE</b></u>	<u><b>LEG TYPE</b></u>	<u><b>FO/FB</b></u>	<u><b>RNP</b></u>	<u><b>COURSE</b></u>	<u><b>DISTANCE</b></u>	<u><b>ALTITUDE</b></u>
DLH VORTAC		FIDUP		TF	FO	1.00	216.37	21.40	3000
KINGZ	IAF	FIDUP	NOPT	TF	FB	1.00	336.29	19.41	2900
WENIB	IAF	FIDUP	NOPT	TF	FB	1.00	045.49	37.45	2900
FIDUP	IF/IAF	EDUCU		TF	FB	1.00	000.20	6.00	2900
EDUCU	FAF	RW36	MAP	TF	FO	0.30	000.20	5.02	
RW36	MAP	1529 MSL		CA			000.20		
1529 MSL		WEDNU		DF	FO	1.00			3000

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW36

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3000 DIRECT WEDNU AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. HOLD S FIDUP, RT, 000.20 INBOUND, 2900 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 000.20      FAF: EDUCU      DIST FAF TO MAP: 5.02      DIST FAF TO THLD: 5.02

4. MIN ALT: FIDUP 2900, EDUCU 2900

5. DIST TO THLD FROM OM:      MM:      IM:      150 HAT:      250 HAT: 0.68      GS ANT:      MM:      IM:

6. MIN GP INCPT: 2900      GP ALT AT FAF : EDUCU 2900      OM:      MM:      IM:

7. GP ANGLE: 3.00      34:1: IS CLEAR      20:1: IS CLEAR      TCH: 40.0

8. MSA FROM: RW36 3100

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WENIB ON T354 NORTHWEST BOUND.  
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY.  
CHART NOTE: STRAIGHT-IN RWY 7, 25 NA AT NIGHT, CIRCLING RWY 7, 25 NA AT NIGHT.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON DLH VORTAC AIRWAY RADIALS 141 CW 288.

ADDITIONAL FLIGHT DATA:

CHART VDP AT 1.18 NM TO RW36\*  
\*LNAV ONLY  
WAAS CHANNEL #82429  
REFERENCE PATH ID: W36A  
FAS OBST: 1419 AAO 463630N/0922946W.  
HOLD N, RT, 180.20 INBOUND  
LTP HAE: 359.5 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

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	1529	1	250	1529	1	250	1529	1	250		NA				
LNAV/VNAV DA	1580	1	301	1580	1	301	1580	1	301		NA				
LNAV MDA	1680	1	401	1680	1	401	1680	1 1/8	401		NA				
CIRCLING	1720	1	441	1780	1	501	1860	1 1/2	581		NA				

QUALITY  
16  
CHECKED

CHANGES - REASONS

1. CHANGED PLANVIEW NOTE FROM "PROCEDURE NA FOR ARRIVALS AT WENIB ON V55 NORTHWEST BOUND" TO "PROCEDURE NA FOR ARRIVALS AT WENIB ON T354 NORTHWEST BOUND" - V55 CANCELLATION.
2. FAS DATA CRC REMAINDER CHANGED FROM 11EF7FF2 TO 441DD480 - LTP/FTP LAT/LONG CHANGED FROM 464140.8565N/0923019.5090W TO 464140.8555N/0923019.5080W, FPAP LONGITUDE CHANGED FROM 0923021.3200W TO 0923021.3165W, LTP AND FPAP ORTHOMETRIC HEIGHT CHANGED FROM +03878 TO +03877.
3. ADDED PROFILE LINE 5 DIST TO THLD FROM 250 HAT: .68 - IAW FAAO 8260.19H PARA 8-6-7.E.(3).
4. REMOVED CHART NOTE: DME/DME RNP-0.3 NA. ADDED PBN REQUIREMENT NOTE: RNP APCH - IAW 8260.19H.
5. CHANGED CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C (2°F) OR ABOVE 54°C (130°F). TO CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C. - 8260.19H 8-6-9.
6. CHANGED ADDITIONAL FLIGHT DATA: CHART VDP AT 1.19 NM TO RWY35 TO CHART VDP AT 1.18 NM TO RWY36 - UPDATED EVALUATION.
7. DELETED CHART FAS OBST: 1388 TREE 464151N/0923056W - LNAV/VNAV CONTROLLING OBSTACLE NO LONGER CHARTED.
8. INCREASE LNAV/VNAV ALL CATS DA/HAT FROM 1538/266 TO 1580/301 AND CIRCLING CAT A CMDA/HAA FROM 1700/421 TO 1720/441 - EVALUATION FOUND NEW CONTROLLER IN LNAV/VNAV AND CIRCLING CAT A OEA DRIVING HIGHER MDA.
9. ADDED "MAX 6000" TO HOLD-IN-LIEU ON LINE 2 - PER .19H PARA 8-6-7B (2).
10. DELETED BACKUP ALTIMETER SETTING AND ASSOCIATED NOTES - MOVED TO -9 AS A CONTINGENCY.
- 11: UPDATED RUNWAY NUMBERING FROM 35 TO 36 - INCORPORATED NOTAM FDC 08/007.

COORDINATED WITH:

A4A☐ALPA☒AOPA☒APA☐HAI☐NBAA☒OTHER: ZMP, DLH APP CON, AMGR

FLIGHT CHECKED BY

PAUL A GOSDEN

Digitally signed by

DONALD H LANIER

Jul 08, 2020

OFFICE

FICO

DATE

2/25/2020

DEVELOPED BY

DONALD H. LANIER (MICAH HILLEY)

Digitally signed by

DONALD H LANIER

Jul 08, 2020

OFFICE

AJV-A431

DATE

06/24/2019

APPROVED BY

GEORGE DAVIS

Digitally signed by

DONALD H LANIER

Jul 08, 2020

OFFICE

AJV-A430

DATE

TITLE  
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCOQ
RUNWAY	RW36
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W36A
LTP/FTP LATITUDE	464140.8555N
LTP/FTP LONGITUDE	0923019.5080W
LTP/FTP ELLIPSOIDAL HEIGHT	+03595
FPAP LATITUDE	464309.9100N
FPAP LONGITUDE	0923021.3165W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1528
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	441DD480

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03877
FPAP ORTHOMETRIC HEIGHT	+03877

