

**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><b>AIRPORT</b></u> CLOQUET CARLTON COUNTY	<u><b>AIRPORT ID</b></u> KCOQ	<u><b>PROCEDURE NAME</b></u> RNAV (GPS) RWY 18	<u><b>ORIGINAL/AMENDMENT</b></u> ORIG-B	<u><b>CITY</b></u> CLOQUET	<u><b>STATE</b></u> MN
<u><b>AIRPORT ELEVATION</b></u> 1279	<u><b>TDZE</b></u> 1279	<u><b>SUPERSEDED</b></u> RNAV (GPS) RWY 17	<u><b>ORIGINAL/AMENDMENT</b></u> ORIG-A	<u><b>DATED</b></u> 01/08/2015	<u><b>MAG VAR</b></u> 1W
<u><b>EPOCH YEAR</b></u> 2015					
<u><b>FACILITY</b></u> RNAV	<u><b>COORDINATES OF FACILITIES</b></u>	<u><b>ACTUAL EFFECTIVE DATE</b></u> 10 SEPTEMBER 2020	<u><b>REQUIRED EFFECTIVE DATE</b></u> ROUTINE	<u><b>CANCEL/SUSPEND</b></u>	

**TERMINAL ROUTES** THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 20-19

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
DLH VORTAC		WEDNU		TF	FO	1.00	290.93	13.41	3000
CIBNA	IAF	WEDNU	NOPT	TF	FB	1.00	115.60	16.62	3000
FOSUP	IAF	WEDNU	NOPT	TF	FB	1.00	239.38	19.03	3000
HIB VOR/DME	IAF	WEDNU	NOPT	TF	FB	1.00	163.48	26.65	3000
WEDNU	IF/IAF	NESIC		TF	FB	1.00	180.20	5.38	2900
NESIC	FAF	HUTKU/2.80 NM TO RW18		TF	FB	0.30	180.20	2.17	
HUTKU/2.80 NM TO RW18		RW18	MAP	TF	FO	0.30	180.20	2.80	
RW18	MAP	1539 MSL		CA			180.20		
1539 MSL		FIDUP		DF	FO	1.00			2900

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW18

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2900 DIRECT FIDUP AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT      SIDE OF COURSE      OUTBOUND      FT WITHIN      MILES OF      (IAF)

2. HOLD N WEDNU, RT, 180.20 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 180.20      FAF: NESIC      DIST FAF TO MAP: 4.97      DIST FAF TO THLD: 4.97

4. MIN ALT:    WEDNU 3000, NESIC 2900, HUTKU/2.80 NM TO RW18 2200\*

5. DIST TO THLD FROM OM:      MM:      IM:      150 HAT:      260 HAT: 0.69      GS ANT:



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

7. GP ANGLE: 3.00      34:1: IS NOT CLEAR      20:1: IS CLEAR      TCH: 40.0

8. MSA FROM: RW18 3100

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:  CHART NOTE: RWY 18 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: CIRCLING RWY 7, 25 NA AT NIGHT.

ADDITIONAL FLIGHT DATA:

CHART FAS OBST: 1378 TREE 464234N/0922934W  
HOLD S, RT, 000.20 INBOUND.  
CHART FAS OBST: 1395 TREE 464418N/0922933W.  
DISTANCE TO THLD FROM 260 HAT: 0.69 NM.  
CHART VDP AT 1.10 NM TO RW18\*  
\*LNAV ONLY.  
WAAS CHANNEL # 97529  
REFERENCE PATH ID: W18A  
LTP HAE: 361.4 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	1557	1	278	1557	1	278	1557	1	278		NA				
LNAV/VNAV DA	1539	1	260	1539	1	260	1539	1	260		NA				
LNAV MDA	1660	1	381	1660	1	381	1660	1 1/8	381		NA				
CIRCLING	1720	1	441	1780	1	501	1860	1 1/2	581		NA				

**CHANGES - REASONS**

- 1: FAS DATA UPDATED: CRC REMAINDER CHANGED FROM 072BE965 TO 34534204. LTP/FTP LAT/LONG UPDATED FROM 464220.3530N/ 0923020.3085W TO 464220.3535N/0923020.3090W  
 2: ADDED 20:1 IS CLEAR TO LINE 7 - 8260.19H  
 3: PBN REQUIREMENT NOTE: ADDED RNP APCH - 8260.19H  
 4: CHART NOTE UPDATED: REMOVED DME/DME RNP-0.3 NA - 8260.19H  
 5: CHART NOTE UPDATED: REMOVED FAHRENHEIT FROM "FOR UNCOMENSATED BARO-VNAV SYSTEMS. LNAV/VNAV NA BELOW -17°C (2°F) OR ABOVE 54°C (130°F) - FAHRENHEIT NO LONGER NEEDED.  
 6: UPDATED RUNWAY NUMBERING FROM 17 TO 18 - INCORPORATED NOTAM 08/007  
 7: DELETED BACKUP ALTIMETER SETTING AND ASSOCIATED NOTES - MOVED TO -9 AS A CONTINGENCY.  
 8: CHANGED LNAV/VNAV DA/HAT FROM 1528/250 TO 1539/260 - UPDATED OBSTACLE; CRITERIA CHANGE.  
 9: APPLIED P-NOTAM CHANGES - INCORPORATED P-NOTAM 09/010.  
 10: UPDATED CIRCLING CAT A OBSTACLE - NEW CONTROLLING OBSTACLE.

07/21/2020: THIS IS AN CORRECTED COPY OF THE FORM APPROVED ON: 07/08/2020

- 1: UPDATED CHART NOTE: "RWY 18 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 NOT AUTHORIZED" TO "RWY 18 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED."  
 2: REMOVED CHART NOTE: STRAIGHT-IN RWY 7, 25 NA AT NIGHT

**COORDINATED WITH:**

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

**FLIGHT CHECKED BY**

MICKEY DUANE TATE

*Digitally signed by*

**DONALD H LANIER**

Jul 30, 2020

**OFFICE**

FIOG

**DATE**

07/09/2020

**DEVELOPED BY**

DONALD H. LANIER (MICAH HILLEY)

*Digitally signed by*

**DONALD H LANIER**

Jul 30, 2020

**OFFICE**

AJV-A430

**DATE**

09/17/2019

**APPROVED BY**

GEORGE DAVIS

*Digitally signed by*

**DONALD H LANIER**

Jul 30, 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	RW18
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W18A
LTP/FTP LATITUDE	464220.3535N
LTP/FTP LONGITUDE	0923020.3090W
LTP/FTP ELLIPSOIDAL HEIGHT	+03614
FPAP LATITUDE	464051.2900N
FPAP LONGITUDE	0923018.5000W
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	34534204

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03897
FPAP ORTHOMETRIC HEIGHT	+03897