

**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> KCOQ	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 18	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>CITY</u> CLOQUET	<u>STATE</u> MN
<u>AIRPORT ELEVATION</u> 1279	<u>TDZE</u> 1279	<u>SUPERSEDED</u> RNAV (GPS) RWY 17	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<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>	<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>
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. FAF:    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

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
CLOQUET CARLTON COUNTY	KCOQ	RNAV (GPS) RWY 18	ORIG-B	CLOQUET	MN	1279	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM DLH VORTAC TO WEDNU

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
	13.41											
<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>
1.TOWER (27-020418)	465316.83N/0923037.83W		1763	500	50	5D	1000					2800
2.TERRAIN	465103.00N/0921730.00W		1529 (1500)								AS1500	3000

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM CIBNA TO WEDNU

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
	16.62										
<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>
3.TOWER (27-001289)	465641.79N/0924441.71W	1810	500	50	5D	1000				AT190	3000
4.TERRAIN	465539.00N/0923757.00W	1438 (1400)								AS1500	2900

COMPUTATIONS

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

SEGMENT REMARKS:



INITIAL

FROM

FOSUP

TO

WEDNU

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	19.03											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.TOWER (27-001107)	465528.00N/0922615.00W		1773	500	50	5D	1000				AT227	3000
6.TERRAIN	465340.73N/0922452.36W		1449 (1400)								AS1500	2900

COMPUTATIONS

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

INITIAL

FROM

HIB VOR/DME

TO

WEDNU

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	26.65											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
1.TOWER (27-020418)	465316.83N/0923037.83W		1763	500	50	5D	1000					2800
7.TERRAIN	470057.00N/0923203.00W		1500 (1500)								AS1500	3000

COMPUTATIONS

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



INTERMEDIATE

FROM

WEDNU (IF/IAF)

TO

NESIC

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	5.38											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
1.TOWER (27-020418)	465316.83N/0923037.83W		1763	500	50	5D	500					2300
8.TERRAIN	464951.00N/0923139.00W		1434 (1400)								AS1500	2900

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: LPV

FROM

NESIC

TO

RW18

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	4.97		DA	278								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9.TREE (KCOQT0201)	464247.74N/0923018.46W		1366	20	3	1A		34:1			MA28	1557

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: LNAV/VNAV

FROM

NESIC

TO

RW18

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	4.97		DA		260							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
10.TREE (27-028414)	464233.98N/0922933.55W		1378	20	3	1A	161					1539

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: LNAV

FROM

NESIC

TO

HUTKU/2.80 NM TO RW18

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	2.17											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
11.AAO	464704.98N/0923023.15W		1529	50	20	2C	250				DG364	2200

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: LNAV STEPDOWN

FROM  
HUTKU/2.80 NM TO RW18

TO  
RW18

RNP	DISTANCE 2.80	PAT	MAP RW18	HAT 381	HMAS							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
12.TREE (KCOQT0255)	464417.60N/0922933.21W		1395	20	3	1A	250					1660

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  
WEDNU

TO  
P-5

RNP	DISTANCE	PAT P-5	MAP	HAT	HMAS							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.TOWER (27-001107)	465528.00N/0922615.00W		1773	500	50	5D	1000					2800
7.TERRAIN	470057.00N/0923203.00W		1500 (1500)								AS1500	3000

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 : LPV

FROM

DA

TO

FIDUP

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1357					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9.TREE (KCOQT0201)	464247.74N/0923018.46W		1366	20	3	1A		ASC				2900
13.AAO	463609.00N/0923154.00W		1447	164	98	4E	1000					2500
14.TERRAIN	463609.00N/0923154.00W		1247 (1200)								AS1500	2700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH : LNAV/VNAV

FROM

DA

TO

FIDUP

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1378					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9.TREE (KCOQT0201)	464247.74N/0923018.46W		1366	20	3	1A		ASC				2900
13.AAO	463609.00N/0923154.00W		1447	164	98	4E	1000					2500
14.TERRAIN	463609.00N/0923154.00W		1247 (1200)								AS1500	2700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

OBSTACLE 9 APPEARING DUE TO SIAP ISSUE



MISSED APPROACH : LNAV

FROM  
RW18

TO  
FIDUP

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1560					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9.TREE (KCOQT0201)	464247.74N/0923018.46W		1366	20	3	1A		ASC				2900
13.AAO	463609.00N/0923154.00W		1447	164	98	4E	1000					2500
14.TERRAIN	463609.00N/0923154.00W		1247 (1200)								AS1500	2700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

OBSTACLE 9 APPEARING DUE TO SIAP ISSUE

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											
15.TREE	464114.52N/0923106.36W	1.3	441	1410	50	20	2C	300			1720
CATEGORY B											
16.TANK (27-002120)	464315.00N/0922818.00W	1.5	501	1477	50	20	2C	300			1780
CATEGORY C											
17.STACK (27-000733)	464331.00N/0922814.00W	1.7	581	1510	20	50	1D	300		AC50	1860

CIRCLING REMARKS:



MSA

CENTER

RW18

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TWR (27-000141)	464708.00N/0920712.00W	074	16.6	2049	500	50	5D	1000			3100

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

TAA NOT DEVELOPED PER CENTRAL FPT.

VEGETATION HEIGHT WITHIN 5 NM: 100 FT PER CENTRAL FPT.

NO SURVEY TO RWYS 7/25, UNABLE TO VERIFY IF SURFACE IS CLEAR OF OCS PENETRATIONS.

VISIBILITY LESS THAN 1 SM NOT AUTHORIZED. RUNWAY LENGTH IS LESS THAN MINIMUM OF 4200 FT AND LACK OF FULL LENGTH PARALLEL TAXIWAY IAW AC 150/5300-13 APPX 16.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH  
DLH APP CON, ZMP ARTCC

<u>WX SERVICE</u> AWOS	<u>LOCATION</u> KCOQ	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KCOQ	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KDLH	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KDLH	<u>DISTANCE</u> 15.3	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 57

WX REMARKS:  
RASS PRESSURE PATTERNS THE SAME  
KCOQ 1279, KDLH 1428  
RA = 56.1.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
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<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW07 - MIRL (PCL)	NPI-G	
RW18 - MIRL (PCL), REIL (PCL), PAPI-4L (PCL)	NPI-G	
RW25 - MIRL (PCL)	NPI-G	
RW36 - MIRL (PCL), ODALS (PCL), PAPI-4L (PCL)	NPI-G	

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 1278.4	<u>TCH</u> 40.0	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 30.0
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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> -17C	<u>CRITICAL HIGH</u> +54C	<u>ACT</u> -17C	<u>APT ISA</u> +12.47C
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CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.  
CRITICAL LOW TEMPERATURE BASED ON ACT.  
DESCENT RATE (FPM): STANDARD TEMP 833 HIGH TEMP 1184.



"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	LNAV/VNAV LPV		
34:1			
1366 TREE (27-063448) 464247.74N/0923018.46W (11.94)		1364 TREE (27-028131) 464247.79N/0923018.14W (9.8)	
1362 TREE (27-028129) 464247.69N/0923018.97W (8.07)		1362 TREE (27-028133) 464248.02N/0923018.54W (7.1)	
1360 TREE (27-028128) 464247.66N/0923019.38W (6.15)		1358 TREE (27-063447) 464248.68N/0923018.04W (1.15)	

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.

CONTINGENCY WEATHER NOTES:  
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE DULUTH ALTIMETER SETTING AND INCREASE ALL DA/MDA 60 FEET; INCREASE LNAV AND CIRCLING CAT C VISIBILITY 1/4 MILE.

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING DULUTH ALTIMETER SETTING.

ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



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	3.08
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	179.20
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1300
DISTANCE FROM	THLD	TO 1500FT POINT	4.77
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	179.20
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1300

THRESHOLD  
COORDINATES  
(IF STR-IN)464220.35N/0923020.31W

ARP COORDINATES464204.00N/0923012.80W

RUNWAY APCH END  
AND DIST FURTHEST  
FROM ARP

RUNWAY 36 DISTANCE 0.39 NM

FAF  
COORDINATES464718.18N/0923026.36W

FIX NAME  
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED



PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
DONALD H. LANIER (MICAH HILLEY)	AJV-A430	09/17/2019	AERONAUTICAL INFORMATION SPECIALIST

