

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>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>		
CIU	RNAV (GPS) RWY 16	2	SAULT STE MARIE	MI		
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
799	799	RNAV (GPS) RWY 16	1C	10/08/2020	7W	2015
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
RNAV		5 SEPTEMBER 2024	ROUTINE			

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
HITAL	IAF	JENOT		TF	FB	1.00	074.83	5.18	3000
CATGA	IAF	JENOT		TF	FB	1.00	246.64	7.04	3000
JENOT	IF	MAGTL		TF	FB	1.00	156.54	5.23	2600
MAGTL	FAF	RW16	MAP	TF	FO	0.30	156.94	5.47	
RW16	MAP	999 MSL		CA			156.94		
999 MSL		CAKRU		DF	FB	1.00			
CAKRU		PINES		TF	FO	1.00	209.15	8.99	3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW16

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT CAKRU AND ON TRACK 209.15 TO PINES AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1.	PT	SIDE OF COURSE		OUTBOUND		FT WITHIN		MILES OF		(IAF)	
2.	PROFILE STARTS AT JENOT										
3.	FAC:	156.94	FAF:	MAGTL	DIST FAF TO MAP:		5.47	DIST FAF TO THLD:		5.47	
4.	MIN ALT: JENOT 3000, MAGTL 2600										
5.	DIST TO THLD FROM OM:		MM:	IM:	150 HAT:		200 HAT:	0.45	GS ANT:		
6.	MIN GP INCPT:	2600	GP ALT AT PFAF:		MAGTL 2600		OM:		MM:	IM:	
7.	GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR	TCH:	58.1			
8.	MSA FROM:	RW16 4000									



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 SM.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CATGA ON T810 SOUTHEAST BOUND.
CHART SPEED ICON IN PLANVIEW AT HITAL: MAX 230 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD SW, RT, 024.30 INBOUND.
CHART FAS OBST: 959 TANK (26-000743) 461547N/0842805W.
CHART VDP AT 1.14 NM TO RW16.
WAAS CHANNEL # 69215
REFERENCE PATH ID: W16A
CHART CIRCLING ICON.
LTP HAE: 207.1 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	999	1/2	200	999	1/2	200	999	1/2	200	999	1/2	200			
LNAV/VNAV DA	1140	5/8	341	1140	5/8	341	1140	5/8	341	1140	5/8	341			
LNAV MDA	1220	1/2	421	1220	1/2	421	1220	3/4	421	1220	3/4	421			
CIRCLING	1260	1	461	1260	1	461	1260	1 1/2	461	1360	2	561			

CHANGES - REASONS

- ADDED 230 KIAS SPEED RESTRICTION AT HITAL - ALLOWS 90 DEGREE TURN WITHOUT EXTENDING LEG.
- MOVED CATGA IAF 1642 FEET SOUTHEAST, COURSE CHANGED FROM 250.71 @ 6.89 NM TO 246.64 @ 7.04 - FIX MOVED FROM CANADIAN AIRSPACE TO US.
- JENOT FIX RELOCATED 4394 FT SOUTHEAST - MOVED DUE TO MIN LEG LENGTH.
- FATPA PFAF REPLACED WITH MAGTL PFAF - MAGTL FIX MOVED TO NEW CALCULATED COORDINATES, DUE TO FATPA BEING USED ON OTHER PROCEDURES AND UNABLE TO UPDATE.
- PBN NOTE UPDATED FROM RNP APCH TO RNP APCH - GPS - IAW 8260.19I PARA 8-6-8B.
- CRC REMAINDER CHANGED FROM 063CD91C TO 49D00929 - FPAP COORDINATES CHANGED FROM 461405.7360N-0842736.9485W TO 461405.7370N-0842736.9465W, TCH FROM 58 TO 58.1, VERTICAL ALERT FROM 50.0 TO 35.0, LTP/FTP FROM 461522.8700N-0842841.1470W TO 461522.8720N-0842841.1435W AND LENGTH OFFSET FROM 0560 TO 0552 - UPDATED DATA.
- LPV MINS LOWERED FROM 1068 DA/269 HAT TO 999 DA/200 HAT ALL CATS - REMOVED XP ADJUSTMENT, LOWER MINS APPROVED BY FPT.
- LNAV/VNAV MINS LOWERED FROM 1204 DA/405 HAT TO 1140 DA/341 HAT AND VISIBILITY FROM 1 SM TO 5/8 SM - REMOVED XP ADJUSTMENT PER FPT.
- UPDATED PLANVIEW NOTE FROM PROCEDURE NA FOR ARRIVALS AT CATGA ON V300... TO ... ON T810... - IAW 8260.19I 8-2-5E.
- DISTANCE FAF TO MAP AND FAF TO THLD CHANGED FROM 5.39 TO 5.47 - PFAF RELOCATED.
- CHANGED DIST TO 269 HAT: 0.66 TO 200 HAT: 0.45 - LPV MINIMUMS LOWERED.
- CHANGED CHART NOTE FROM "FOR INOPERATIVE ALS, INCREASE LPV ALL CATS, LNAV/VNAV ALL CATS AND LNAV CATS A/B/C 1/2 SM; INCREASE LNAV CAT D 1/4 SM" TO "FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 SM" - NEW EVALUATION WHICH LOWERED LPV AND LNAV/VNAV MINIMUMS.
- HITAL TO JENOT COURSE/DISTANCE CHANGED FROM 066.81/5.16 TO 074.83/5.18 - JENOT FIX MOVED 4394 FT SOUTHEAST.
- ADDED OBSTACLE ID (26-000743) TO FAS OBSTACLE NOTE IN ADDITIONAL FLIGHT DATA - IAW 8260.19I PARA 8-6-10C.
- REMOVED * FROM CHART VDP NOTE AND REMOVED *LNAV ONLY FROM ADDITIONAL FLIGHT DATA - IAW 8260.19I PARA 1-1-5F(12).
- LNAV CAT D VISIBILITY LOWERED FROM 1 TO 3/4 SM - IAW 8260.3E TABLE 3-3-1.



COORDINATED WITH:

A4A

☒

ALPA

☒

AOPA

☒

APA

☒

HAI

☐

NBAA

☒

OTHER:

TORONTO CTR, ZMP, AMGR

FLIGHT CHECKED BY

SCOTT WIEBE

Digitally signed by

ERIC N SUSKI

Apr 18, 2024

OFFICE

FPO

DATE

04/16/2024

DEVELOPED BY

JOSEPH L. ZEDER

Digitally signed by

JOSEPH L ZEDER

Mar 01, 2024

OFFICE

AJV-A432

DATE

12/05/2023

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by

CASIMIR L TABAKA

Mar 05, 2024

OFFICE

AJV-A432

DATE

TITLE

MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD

OPERATION TYPE
SBAS SERVICE PROVIDER IDENTIFIER
AIRPORT IDENTIFIER
RUNWAY
APPROACH PERFORMANCE DESIGNATOR
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR
REFERENCE PATH IDENTIFIER (APPROACH ID)
LTP/FTP LATITUDE
LTP/FTP LONGITUDE
LTP/FTP ELLIPSOIDAL HEIGHT
FPAP LATITUDE
FPAP LONGITUDE
THRESHOLD CROSSING HEIGHT (TCH)
TCH UNITS SELECTOR (METERS OR FEET USED)
GLIDEPATH ANGLE (GPA)
COURSE WIDTH AT THRESHOLD
LENGTH OFFSET
HORIZONTAL ALERT LIMIT (HAL)
VERTICAL ALERT LIMIT (VAL)

DATA

0
0
KCIU
RW16
0
0
W16A
461522.8720N
0842841.1435W
+02071
461405.7370N
0842736.9465W
00058.1
F
03.00
106.75
0552
40.0
35.0

CRC REMAINDER

49D00929

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE
LTP ORTHOMETRIC HEIGHT
FPAP ORTHOMETRIC HEIGHT

K5
+02434
+02434

