

**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> TRACY MUNI	<u>AIRPORT ID</u> KTKC	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 11	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>CITY</u> TRACY	<u>STATE</u> MN	
<u>AIRPORT ELEVATION</u> 1341	<u>TDZE</u> 1336	<u>SUPERSEDED</u> RNAV (GPS) RWY 11	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 02/28/2019	<u>MAG VAR</u> 5E	<u>EPOCH YEAR</u> 1985
<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>
GHENT		JADIP		TF	FB	1.00	147.16	3.52	3200
POEMS		LEBIC		TF	FB	1.00	029.37	25.11	3500
RWF VOR/DME		CURLU		TF	FO	1.00	251.82	31.88	3200
JADIP	IAF	CURLU	NOPT	TF	FB	1.00	203.61	5.00	3200
LEBIC	IAF	CURLU	NOPT	TF	FB	1.00	023.53	5.00	3200
CURLU	IF/IAF	CICAY		TF	FB	1.00	113.48	6.00	3200
CICAY	FAF	RW11	MAP	TF	FO	0.30	113.57	5.67	
RW11	MAP	1741 MSL		CA			113.57		
1741 MSL		DUPPA		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LNAV: RW11

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT DUPPA AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD NW CURLU, RT, 113.48 INBOUND, 3200 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 113.57

FAF: CICAY

DIST FAF TO MAP: 5.67

DIST FAF TO THLD: 5.67

4. MIN ALT: CURLU 3200, CICAY 3200

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 NOT CLEAR

20:1: IS NOT CLEAR

TCH:

8. MSA FROM: RW11 3900

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: PROCEDURE NA AT NIGHT.
CHART NOTE: RWY 11 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT POEMS ON V148 SOUTHWEST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON RWF VOR/DME AIRWAY RADIALS 192 CW 312.
CHART NOTE: CIRCLING NA TO RWY 17-35.

ADDITIONAL FLIGHT DATA:

FAS OBST: 1670 AAO 441659N/0954439W.
HOLD SE, RT, 293.82 INBOUND.
CICAY TO RW11: 3.03/40.

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
LNAV MDA	1920	1	584	1920	1	584		NA			NA				
CIRCLING	1960	1	619	1960	1	619		NA			NA				



CHANGES - REASONS

1. ADDED "20:1 IS NOT CLEAR" TO 8260.3 LINE 7 - IAW 8260.19H, PARA 8-6-7G(3).

2. ADDED MAX 6000 TO LINE 2 - IAW 8260.19H PARA 8-6-7(B).

3. REMOVED "PROCEDURE NA FOR ARRIVALS AT GHENT INT VIA V26 WESTBOUND" - GHENT IS NO LONGER AN ENTRROUTE FIX AND IS NOT A PART OF V26.

4. CHANGED PLANVIEW NOTE FROM "PROCEDURE NA FOR ARRIVALS AT POEMS INT VIA V148 SOUTHWEST BOUND" TO "PROCEDURE NA FOR ARRIVALS AT POEMS ON V148 SOUTHWEST BOUND" - CORRECTED FORMATTING IAW 8260.19H.

5. CHANGED PLANVIEW NOTE FROM "PROCEUDRE NA FOR ARRIVALS AT RWF VOR/DME VIA AIRWAY RADIALS 192 CW 312" TO "PROCEDURE NA FOR ARRIVAL ON RWF VOR/DME AIRWAY RADIALS 192 CW 312" - CORRECTED FORMATTING IAW 8260.19H.

6. DELETED ALL REFERENCE OF MARSHALL/RYAN ALTIMETER SETTING AND MOVED NOTE TO -9 - LOCAL WEATHER TRANSMITTED ON WMSCR AND DEEMED RELIABLE.

7. INCREASED LNAV MDA/HAT FROM 1900/564 TO 1920/584 - NEW EVALUATION.

8. FAS OBS CHANGED FROM 1639 TREE 441627N/954231W TO 1670 AAO 441659N/0954439W - NEW EVALUATION.

9. DELETED "ROUTE TYPE DESCRIPTION: P, A" AND "APPROACH ROUTE QUALIFIER 2: S" FROM ADDITIONAL FLIGHT DATA - ENTRIES NOT REQUIRED.

10. ADDED ALT MINS STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE - PRIMARY AND BACKUP ALTIMETER SOURCES ARE ON WMSCR, ALTERNATE MINIMUMS NOW AUTHORIZED.

11. INCORPORATED CHANGES FROM PREVIOUS P-NOTAMS INTO THE FORM.
- 06/29/20: THIS IS A UPDATED COPY OF THE FORM DEVELOPED ON 05/04/20.
1. UPDATE CHART NOTE FROM CIRCLING NA TO RWY 6-24 AND 17-35 TO CHART NOTE: CIRCLING NA TO RWY 17-35 - RWY 6/24 DECOMMISSIONED/ PERM CLOSED.

COORDINATED WITH:

A4A

☐

ALPA

☒

AOPA

☒

APA

☐

HAL

☐

NBAA

☒

OTHER:

ZMP, AMGR

FLIGHT CHECKED BY

DONALD MCGOUOGH

Digitally signed by

DAVID TEFFETELLER

OFFICE

FICO

DATE

10/14/2020

DEVELOPED BY

DAVID TEFFETELLER (GUY COPELAND)

Oct 29, 2020

Digitally signed by

DAVID TEFFETELLER

Sep 21, 2020

OFFICE

AJV-A433

DATE

02/12/2020

APPROVED BY

GEORGE DAVIS

Digitally signed by

DAVID TEFFETELLER

Oct 29, 2020

OFFICE

AJV-A430

DATE

TITLE

MANAGER



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

<u>AIRPORT</u> TRACY MUNI	<u>AIRPORT ID</u> KTKC	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 11	<u>AMDT NO.</u> ORIG-B	<u>CITY</u> TRACY	<u>STATE</u> MN	<u>AIRPORT ELEVATION</u> 1341	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

<u>FROM</u> GHENT	<u>TO</u> JADIP
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<u>RNP</u>	<u>DISTANCE</u> 3.52	<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>
1.TOWER (24-0812)	442433.00N/0955147.00W		1680	500	50	5D	1000				AT520	3200
2.TERRAIN	442312.00N/0955227.00W		1346 (1300)								AS1500	2800

COMPUTATIONS

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

FEEDER

<u>FROM</u> POEMS	<u>TO</u> LEBIC
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<u>RNP</u>	<u>DISTANCE</u> 25.11	<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>
3.WINDMILL (24-1632)	440759.00N/0960853.00W		2237	500	50	5D	1000				AT263	3500
4.TERRAIN	440624.00N/0960609.00W		1985 (2000)								AS1500	3500

COMPUTATIONS

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



FEEDER

FROM
RWF VOR/DME

TO
CURLU

RNP	DISTANCE 31.88	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.TOWER (24-1062)	441940.00N/0954931.00W		1920	500	50	5D	1000				AT280	3200
6.TERRAIN	441742.00N/0954530.00W		1605 (1600)								AS1500	3100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM
JADIP

TO
CURLU

RNP	DISTANCE 5.00	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.TOWER (24-1373)	441932.00N/0955220.00W		1998	500	50	5D	1000				AT202	3200
8.TERRAIN	442003.00N/0955306.00W		1565 (1600)								AS1500	3100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INITIAL

FROM

LEBIC

TO

CURLU

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	5.00											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.TOWER (24-1373)	441932.00N/0955220.00W		1998	500	50	5D	1000				AT202	3200
9.TERRAIN	441803.00N/0955542.00W		1638 (1600)								AS1500	3100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

CURLU (IF/IAF)

TO

CICAY

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	6.00											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.TOWER (24-1373)	441932.00N/0955220.00W		1998	500	50	5D	500				AT702	3200
10.TERRAIN	441715.00N/0954439.00W		1713 (1700)								AS1500	3200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV

FROM

CICAY

TO

RW11

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	5.67		RW11			584						
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
11.AAO	441659.02N/0954439.07W		1670	50	20	2C	250					1920

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

HOLD-IN-LIEU OF PT

FROM

CURLU

TO

P-5

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
		P-5										
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.TOWER (24-1373)	441932.00N/0955220.00W		1998	500	50	5D	1000				AT202	3200
12.TERRAIN	441918.00N/0960157.00W		1710 (1700)								AS1500	3200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH : LNAV

FROM

RW11

TO

DUPPA

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
13.AAO	440851.00N/0952621.00W		1638	164	98	4E	1000					2700
14.TERRAIN	440848.00N/0952621.00W		1437 (1400)								AS1500	2900

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

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.TANK (27-001355)	441405.00N/0953728.00W	1.3	619	1559	500	50	5D	300		AC50	1960
CATEGORY B											
15.TANK (27-001355)	441405.00N/0953728.00W	1.5	619	1559	500	50	5D	300		AC50	1960

CIRCLING REMARKS:

MSA

CENTER

RW11

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TWR (24-1466)	435352.00N/0955651.00W	209	25.7	2828	250	50	4D	1000			3900

MSA REMARKS:



NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ZMP ARTCC

<u>WX SERVICE</u> AWOS	<u>LOCATION</u> KTKC	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KTKC	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> AWOS	<u>LOCATION</u> KMML	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KMML	<u>DISTANCE</u> 15.336	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 58

WX REMARKS:
PRESSURE PATTERNS THE SAME
KTKC 1341, KMML 1183
RA = 57.1

<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>
RW11 - MIRL (PCL)		NPI-F	
RW29 - 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 - 20:1 PENETRATIONS.

FOR CONTINGENCY PURPOSES ONLY:
NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MARSHALL ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET.

VEGETATION HEIGHT 100 FT PER FPT.



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	3.34
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	118.57
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1500
DISTANCE FROM	THLD	TO 1500FT POINT	5.27
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.76
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	118.57
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1500

THRESHOLD
COORDINATES
(IF STR-IN)441502.89N/0953640.85W

ARP COORDINATES441457.25N/0953626.67W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 29 DISTANCE 0.32 NM

FAF
COORDINATES

FIX NAME
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED
CICAY: 441745.89N/0954336.49W



PART E: PREPARED BY

<u>NAME</u> DAVID TEFFETELLER (GUY COPELAND)	<u>OFFICE</u> AJV-A433	<u>DATE</u> 02/12/2020	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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