

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> KOTG	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 11	<u>ORIGINAL/AMENDMENT</u> 1A	<u>CITY</u> WORTHINGTON	<u>STATE</u> MN		
<u>AIRPORT ELEVATION</u> 1574	<u>TDZE</u> 1574	<u>SUPERSEDED</u> RNAV (GPS) RWY 11	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 01/27/2022	<u>MAG VAR</u> 2E	<u>EPOCH YEAR</u> 2015
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 23 FEBRUARY 2023	<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>
POEMS	IAF	NEYIL	NOPT	TF	FB	1.00	120.35	21.02	3300
BRAIN	IAF	NEYIL	NOPT	TF	FB	1.00	076.64	27.13	3300
NEYIL	IF/IAF	WORBI		TF	FB	1.00	112.56	6.20	3300
WORBI	FAF	ZELPA/1.77 NM TO RW11		TF	FB	0.30	112.64	3.52	
ZELPA/1.77 NM TO RW11		RW11	MAP	TF	FO	0.30	112.64	1.77	
RW11	MAP	1824 MSL		CA			112.64		
1824 MSL		CUKMO		DF	FO	1.00			3300

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW11

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3300 DIRECT CUKMO AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD NW NEYIL, RT, 112.56 INBOUND, 3300 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 112.64FAF: WORBI

DIST FAF TO MAP: 5.29

DIST FAF TO THLD: 5.29

4. MIN ALT: NEYIL 3300, WORBI 3300, ZELPA/1.77 NM TO RW11 2180

5. DIST TO THLD FROM OM:MM:IM:150 HAT:250 HAT: 0.65GS ANT:

6. MIN GP INCPT: 3300GP ALT AT PFAF : WORBI 3300OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 42.1

8. MSA FROM: RW11 3900

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -23°C OR ABOVE 54°C.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BRAIN ON T348 WESTBOUND.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT POEMS ON V148 SOUTHWEST BOUND.

ADDITIONAL FLIGHT DATA:

HOLD SE, RT, 292.89 INBOUND.  
CHART FAS OBST: 1739 TREE 433944N/0953728W.  
1930 AAO 434153N/0954148W.  
CHART VDP AT 1.20 NM TO RW11.  
WAAS CHANNEL # 58230  
REFERENCE PATH ID: W11A  
CHART CIRCLING ICON.  
LTP HAE: 453 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/2, 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	1824	3/4	250	1824	3/4	250	1824	3/4	250	1824	3/4	250			
LNAV/VNAV DA	1826	3/4	252	1826	3/4	252	1826	3/4	252	1826	3/4	252			
LNAV MDA	2000	1	426	2000	1	426	2000	1 1/4	426	2000	1 1/4	426			
CIRCLING	2100	1	526	2100	1	526	2100	1 1/2	526	2320	2 1/2	746			

**CHANGES - REASONS**

1. CHANGED CHART PLANVIEW NOTE: FROM "PROCEDURE NA FOR ARRIVALS AT BRAIN ON V170 AND T348 WESTBOUND" TO "PROCEDURE NA FOR ARRIVALS AT BRAIN ON T348 WESTBOUND" - V170 PER VOR MON PROGRAM.

**COORDINATED WITH:**

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

**FLIGHT CHECKED BY**

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

**OFFICE**

**DATE**

*Digitally signed by*  
**CASIMIR L TABAKA**  
Oct 13, 2022

**DEVELOPED BY**

CASIMIR L. TABAKA (SILVIA YOUNG)

*Digitally signed by*  
**CASIMIR L TABAKA**  
Oct 13, 2022

**OFFICE**

AJV-A432

**DATE**

08/10/2022

**APPROVED BY**

JOHNNIE BAKER

*Digitally signed by*  
**CASIMIR L TABAKA**  
Oct 13, 2022

**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	KOTG
RUNWAY	RW11
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W11A
LTP/FTP LATITUDE	433927.4600N
LTP/FTP LONGITUDE	0953507.3995W
LTP/FTP ELLIPSOIDAL HEIGHT	+04530
FPAP LATITUDE	433850.1830N
FPAP LONGITUDE	0953315.9265W
THRESHOLD CROSSING HEIGHT (TCH)	00042.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1072
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	0BD30820

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+04796
FPAP ORTHOMETRIC HEIGHT	+04796

