

**RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33**

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TERMINAL ROUTES							MISSED APPROACH										
FROM		TO		COURSE AND DISTANCE			ALTITUDE										
OTG VOR/DME		NEYIL (FO)		295.23 / 11.91			3300		LPV: DA LNAV/VNAV: DA LNAV: RW11								
POEMS (IAF)		NEYIL (NOPT) (FB)		120.35 / 21.02			3300		CLIMB TO 3300 DIRECT CUKMO AND HOLD.								
BRAIN (IAF)		NEYIL (NOPT) (FB)		076.64 / 27.13			3300										
NEYIL (IF/IAF)		WORBI (FB)		112.55 / 6.20			3300										
WORBI (FAF)		ZELPA/2.60 NM TO RW11 (FB)		112.64 / 2.69													
ZELPA/2.60 NM TO RW11 (SEE FORM 8260-10)		RW11 (MAP) (FO)		112.68 / 2.60					ADDITIONAL FLIGHT DATA: HOLD SE, RT, 292.88 INBOUND. CHART FAS OBST: 1759 TREE 433956N/0953824W 1930 AAO 434204N/0954137W DISTANCE TO THLD FROM 250 HATH: 0.65 NM. WAAS CHANNEL # 58230 REFERENCE PATH ID: W11A LTP HAE: 453 M								
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF) 2. HOLD NW NEYIL, RT, 112.55 INBOUND, 3300 FT. IN LIEU OF PT (IAF) 3. FAC: 112.64 FAF: WORBI DIST FAF TO MAP: 5.29 THLD: 5.29 4. MIN. ALT: NEYIL 3300, WORBI 3300, ZELPA/2.60 NM TO RW11 2440* 5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT: 6. MIN GS INCPT: 3300 GS ALT AT: WORBI 3300 OM: MM: IM: 7. GS ANGLE: 3.00 TCH: 42.0 34:1 IS NOT CLEAR 8. MSA FROM: RW11 3900												MAG VAR: 2E			EPOCH YEAR: 2015		
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @								
CATEGORY =====>	A			B			C			D			E				
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA		
LPV DA	1824	1	250	1824	1	250	1824	1	250	1824	1	250					
LNAV/VNAV DA	1826	1	252	1826	1	252	1826	1	252	1826	1	252					
LNAV MDA	2020	1	446	2020	1	446	2020	1 3/8	446	2020	1 3/8	446					
CIRCLING	2100	1	526	2100	1	526	2100	1 1/2	526	2140	2	566					
NOTES: CHART NOTE: BARO-VNAV NA WHEN USING JACKSON ALTIMETER SETTING. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18C (0F) OR ABOVE 54C (130F). CHART NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 11 PROCEDURE NA AT NIGHT. CHART NOTE: DME/DME RNP-0.3 NA. (SEE FORM 8260-10)																	
CITY AND STATE		ELEVATION: 1574 THRE: 1574		AIRPORT NAME:		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
WORTHINGTON, MN				WORTHINGTON MUNI				RNAV (GPS) RWY 11, ORIG 10 JANUARY 2013				AMDT: NONE DATED					

QUALITY
2
CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW11 (MAP)	1824 MSL	112.68	
1824 MSL	CUKMO (FO)		3300

NOTES, (CONT.):

CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT POEMS ON V148 SOUTHWEST BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON OTG VOR/DME AIRWAY RADIALS 234 CW 014.

*LNAV ONLY

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE JACKSON ALTIMETER SETTING AND INCREASE ALL DA 78 FEET, ALL MDA FEET 80 FEET, INCREASE LPV AND LNAV/VNAV ALL CATS AND LNAV CATS C/D VISIBILITY 1/8 MILE AND CIRCLING CAT C VISIBILITY 1/4 MILE.

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CITY AND STATE WORTHINGTON, MN	ELEVATION: 1574	THRE: 1574	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 11, ORIG 10 JANUARY 2013	SUP:
	AIRPORT NAME: WORTHINGTON MUNI				AMDT: NONE
					DATED:

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

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FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE 0
SBAS SERVICE PROVIDER IDENTIFIER 0
AIRPORT IDENTIFIER KOTG
RUNWAY RW11
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR 0
REFERENCE PATH DATA SELECTOR W11A
REFERENCE PATH IDENTIFIER (APPROACH ID) 433927.4600N
LTP/FTP LATITUDE 0953507.3995W
LTP/FTP LONGITUDE +04530
LTP/FTP ELLIPSOIDAL HEIGHT 433850.1800N
FPAP LATITUDE 0953315.9300W
FPAP LONGITUDE 00042.0
THRESHOLD CROSSING HEIGHT (TCH) F
TCH UNITS SELECTOR (METERS OR FEET USED) 03.00
GLIDEPATH ANGLE (GPA) 106.75
COURSE WIDTH AT THRESHOLD 1072
LENGTH OFFSET 40.0
HORIZONTAL ALERT LIMIT (HAL) 50.0
VERTICAL ALERT LIMIT (VAL)

CRC REMAINDER

1FA6E7E1

ADDITIONAL PATH POINT RECORD INFORMATION

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

QUALITY
2
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CITY AND STATE
WORTHINGTON, MN

ELEVATION: 1574 THRE: 1574
AIRPORT NAME:
WORTHINGTON MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 11, ORIG
10 JANUARY 2013

SUP:
AMDT: NONE
DATED:

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[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KOTGK3FR11	ABRAIN	010BRAIN	K3EA0E	A	IF					18000		A	JS
SUSAP KOTGK3FR11	ABRAIN	020NEYILK3EA0EE	B	010TF		07660271	+	03300				A	JS
SUSAP KOTGK3FR11	AOTG	0100TG	K3D	0V	IF					18000		A	JS
SUSAP KOTGK3FR11	AOTG	020NEYILK3EA0EY	020TF			29520119	+	03300				A	JS
SUSAP KOTGK3FR11	AOTG	030NEYILK3EA0EE	AR	HF		11260040	+	03300				A	JS
SUSAP KOTGK3FR11	APOEMS	010POEMSK3EA0E	A	IF						18000		A	JS
SUSAP KOTGK3FR11	APOEMS	020NEYILK3EA0EE	B	010TF		12040210	+	03300				A	JS
SUSAP KOTGK3FR11	R	010NEYILK3EA0E	I	IF			+	03300		18000		A	JS
SUSAP KOTGK3FR11	R	020WORBIK3EA1E	F	051TF		11260062	+	03300			RW11	K3PGA	JS
SUSAP KOTGK3FR11	R	020WORBIK3EA2WALPV			ALNAV/VNAV	ALNAV							JS
SUSAP KOTGK3FR11	R	021ZELPAK3EA0E	S	031TF		11260027	V	0244002444		-300		A	JS
SUSAP KOTGK3FR11	R	030RW11	K3PGOGY	M	031TF	11270026		01616		-300		A	JS
SUSAP KOTGK3FR11	R	040		0	M	CA	1127	+	01824			A	JS
SUSAP KOTGK3FR11	R	050CUKMOK3EA0EY		DF			+	03300				A	JS
SUSAP KOTGK3FR11	R	060CUKMOK3EA0EE	R	HM		29290040	+	03300				A	JS

[illegible]

CITY AND STATE WORTHINGTON, MN	ELEVATION: 1574 THRE: 1574 AIRPORT NAME: WORTHINGTON MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 11, ORIG 10 JANUARY 2013	SUP:
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	AIRPORT NAME: WORTHINGTON MUNI	RNAV	RNAV (GPS) RWY 11, ORIG 10 JANUARY 2013	AMDT: NONE
				DATED:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
 FLIGHT STANDARDS SERVICES - FAR PART 97.33

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	BRAIN	BRAIN	010	IAF	IF		FB					
	BRAIN	NEYIL	020		TF		FB	1.0	076.6 (078.6T)	027.1	AA 03300	
	OTG	OTG	010		IF		FB					
	OTG	NEYIL	020		TF		FO	2.0	295.2 (297.2T)	011.9	AA 03300	
	OTG	NEYIL	030	IAF	HF	R	FO		112.6 (114.6T)	004.0	AA 03300	
	POEMS	POEMS	010	IAF	IF		FB					
	POEMS	NEYIL	020		TF		FB	1.0	120.4 (122.4T)	021.0	AA 03300	
		NEYIL	010	FACF	IF		FB				AA 03300	
		WORBI	020	FAF	TF		FB	0.5	112.6 (114.6T)	006.2	AA 03300	
		ZELPA	021	SDF	TF		FB	0.3	112.6 (114.6T)	002.7	AA 02440 GS 02444	
		RW11	030	MAP	TF		FO	0.3	112.7 (114.7T)	002.6	AT 01616	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		112.7 (114.7T)		AA 01824	
	CUKMO	050		DF		FO				AA 03300	
	CUKMO	060		HM	R	FO		292.9 (294.9T)	004.0	AA 03300	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	OTG	N433848.90	W0953455.05	N4338.815	W09534.918
	BRAIN	N433900.24	W0962612.58	N4339.004	W09626.210
	CUKMO	N433415.48	W0951938.24	N4334.258	W09519.637
	NEYIL	N434414.89	W0954931.19	N4344.248	W09549.520
	POEMS	N435532.34	W0961400.52	N4355.539	W09614.009
	WORBI	N434139.99	W0954144.72	N4341.667	W09541.745
	ZELPA	N434032.66	W0953822.66	N4340.544	W09538.378
	RW11	N433927.46	W0953507.40	N4339.458	W09535.123

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW11	01574	42

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	AIRPORT NAME: WORTHINGTON MUNI		RNAV	RNAV (GPS) RWY 11, ORIG 10 JANUARY 2013	AMDT: NONE
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