

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, 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 in feet RVR.								
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW12R CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 3000 DIRECT FGT VORTAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 358.03 INBOUND. CHART FAS OBST: 953 TREE 445317N/0931512W DISTANCE TO THLD FROM 200 HAT: 0.47 NM. CHART VDP AT 0.98 MILES TO RW12R* *LNAV ONLY. WAAS CHANNEL # 50125 REFERENCE PATH ID: W12A CHART CIRCLING ICON LTP HAE: 229.4 M							
TLBAT		NUYIS (FB)		143.60 / 28.76			7000									
NUYIS		PAETN (FB)		120.83 / 15.82			7000									
PAETN (IAF)		UTHNK (FB)		121.06 / 3.14			6000									
UTHNK		WAYZA (FB)		121.10 / 3.14			5000									
WAYZA (IF)		ZESTY (FB)		121.15 / 3.14			4000									
ZESTY		KINNS (FB)		121.19 / 3.14			3000									
KINNS (FAF)		WABBS/1.70 NM TO RW12R (FB)		121.24 / 4.92												
(SEE FORM 8260-10)																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 0E EPOCH YEAR: 2015						
2. PROFILE STARTS AT PAETN																
3. FAC: 121.40 FAF: KINNS DIST FAF TO MAP: 6.62 THLD: 6.62																
4. MIN. ALT: PAETN 7000, UTHNK 6000, WAYZA 5000, ZESTY 4000, KINNS 3000, WABBS/1.70 NM TO RW12R 1420*																
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																
6. MIN GS INCPT: 3000 GS ALT AT: KINNS 3000 OM: _____ MM: _____ IM: _____																
7. GS ANGLE: 3.00 TCH: 50.0 34:1 IS CLEAR																
8. MSA FROM: RW12R 3500																
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	1042	2400	200	1042	2400	200	1042	2400	200	1042	2400	200	1042	2400	200	
LNAV/VNAV DA	1211	4000	369	1211	4000	369	1211	4000	369	1211	4000	369	1211	4000	369	
LNAV MDA	1220	2400	378	1220	2400	378	1220	3500	378	1220	3500	378	1220	3500	378	
CIRCLING	1360	1	518	1360	1	518	1460	1 3/4	618	1660	2 3/4	818	1800	3	958	
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C (-4F) OR ABOVE 54C (130F). CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 12L. CHART NOTE: DME/DME RNP-0.3 NA. (SEE FORM 8260-10)																
CITY AND STATE MINNEAPOLIS, MN		ELEVATION: 842 TDZE: 842 AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Z RWY 12R, AMDT 3 5 MARCH 2015				SUP: RNAV (GPS) RWY 12R AMDT: 2 DATED 05/02/2013						

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
WABBS/1.70 NM TO RW12R	RW12R (MAP) (FO)	121.24 / 1.70	
RW12R (MAP)	1300 MSL	121.24	1300
1300 MSL	FGT VORTAC (FO)		3000

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT TLBAT ON V2 NORTHWEST BOUND.

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.

CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.

CHART NOTE: FOR INOPERATIVE ALSF-1, INCREASE LPV CAT E VISIBILITY TO RVR 4000, INCREASE LNAV/VNAV

CAT E VISIBILITY TO 1 1/4 MILE, AND INCREASE LNAV CAT C/D/E VISIBILITY TO RVR 5500.

CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.

QUALITY
6
CHECKED

CITY AND STATE
MINNEAPOLIS, MN

ELEVATION: 842 TDZE: 842
AIRPORT NAME:
MINNEAPOLIS-ST PAUL INTL/WOLD-
CHAMBERLAIN

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) Z RWY 12R, AMDT 3
5 MARCH 2015

SUP: RNAV (GPS) RWY
12R
AMDT: 2
DATED: 05/02/2013

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

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FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMSP
RUNWAY	RW12R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W12A
LTP/FTP LATITUDE	445316.0440N
LTP/FTP LONGITUDE	0931402.8725W
LTP/FTP ELLIPSOIDAL HEIGHT	+02294
FPAP LATITUDE	445224.6800N
FPAP LONGITUDE	0931204.2680W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

F1EAFE82

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02566
FPAP ORTHOMETRIC HEIGHT	+02566

QUALITY
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CITY AND STATE

MINNEAPOLIS, MN

ELEVATION: 842

TDZE: 842

AIRPORT NAME:

MINNEAPOLIS-ST PAUL INTL/WOLD-
CHAMBERLAINFACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Z RWY 12R, AMDT 3

5 MARCH 2015

SUP: RNAV (GPS) RWY
12R

AMDT: 2

DATED: 05/02/2013

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[illegible]

QUALITY
3 15
CHECKED


CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842	TDZE: 842	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) Z RWY 12R, AMDT 3 5 MARCH 2015	SUP: RNAV (GPS) RWY 12R
	AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD- CHAMBERLAIN				AMDT: 2
					DATED: 05/02/2013

Bearings, headings, courses, 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 in feet RVR.

QUALITY
15
CHECKED

CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) Z RWY 12R, AMDT 3 5 MARCH 2015	SUP: RNAV (GPS) RWY 12R
	TDZE: 842			AMDT: 2
	AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN			DATED: 05/02/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, 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 in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	PAETN	PAETN	010	IAF	IF		FB					
	PAETN	UTHNK	020		TF		FB	1.0	121.1 (121.1T)	003.1	AA 06000	
	PAETN	WAYZA	030		TF		FB	1.0	121.1 (121.1T)	003.1	AA 05000	
	TLBAT	TLBAT	010		IF		FB					
	TLBAT	NUYIS	020		TF		FB	2.0	143.6 (143.6T)	028.8	AA 07000	
	TLBAT	PAETN	030	IAF	TF		FB	2.0	120.8 (120.8T)	015.8	AA 07000	
	TLBAT	UTHNK	040		TF		FB	1.0	121.1 (121.1T)	003.1	AA 06000	
	TLBAT	WAYZA	050		TF		FB	1.0	121.1 (121.1T)	003.1	AA 05000	
		WAYZA	010	FACF	IF		FB				AA 05000	
		ZESTY	011		TF		FB	0.5	121.2 (121.2T)	003.1	AA 04000	
		KINNS	020	FAF	TF		FB	0.5	121.2 (121.2T)	003.1	AA 03000	
		WABBS	021	SDF	TF		FB	0.3	121.2 (121.2T)	004.9	AA 01420	GS 01433
		RW12R	030	MAP	TF		FO	0.3	121.2 (121.2T)	001.7	AT 00892	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		121.2 (121.2T)		AA 01300	
		FGT	050		DF	R	FO				AA 03000	
		FGT	060		HM	R	FO		358.0 (358.0T)	004.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		FGT	N443751.40		W0931055.39		N4437.857		W09310.923			
		KINNS	N445642.28		W0932200.56		N4456.705		W09322.009			
		NUYIS	N451120.05		W0935619.26		N4511.334		W09356.321			
		PAETN	N450311.97		W0933709.39		N4503.200		W09337.157			
		TLBAT	N453431.10		W0942027.16		N4534.518		W09420.453			
		UTHNK	N450134.74		W0933321.87		N4501.579		W09333.365			
		WABBS	N445409.07		W0931605.43		N4454.151		W09316.091			
		WAYZA	N445957.38		W0932934.57		N4459.956		W09329.576			
		ZESTY	N445819.89		W0932547.46		N4458.332		W09325.791			
		RW12R	N445316.04		W0931402.87		N4453.267		W09314.048			
RUNWAY DATA			THRESHOLD									
		RWY	ELEVATION		TCH							
		RW12R	00842		50							



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	AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN		RNAV	RNAV (GPS) Z RWY 12R, AMDT 3	AMDT: 2
				5 MARCH 2015	DATED: 05/02/2013