

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	
PRAGS (IAF)	WITUD (NOPT) (FB)	201.49 / 18.35	3000	LPV: DA LNAV/VNAV: DA LNAV: RW15
MKT VOR/DME (IAF)	WITUD (NOPT) (FB)	081.35 / 10.72	3000	
WITUD (IF/IAF)	VIBUC (FB)	152.06 / 6.03	2700	CLIMB TO 3000 DIRECT VUYUN AND HOLD.
VIBUC (FAF)	UBEYI/1.70 NM TO RW15 (FB)	152.09 / 3.11		
UBEYI/1.70 NM TO RW15	RW15 (MAP) (FO)	152.09 / 1.70		ADDITIONAL FLIGHT DATA: HOLD SE, RT, 332.20 INBOUND. CHART FAS OBST: 1239 TREE 440544N/0933328W DISTANCE TO THLD FROM 250 HATH: 0.66 NM. WAAS CHANNEL # 70532 REFERENCE PATH ID: W15A CHART CIRCLING ICON LTP HAE: 314.7 M
RW15 (MAP)	1377 MSL	152.09		
1377 MSL	VUYUN (FO)		3000	

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD NW WITUD, RT, 152.06 INBOUND, 3000 FT. IN LIEU OF PT (IAF)
- FAC: 152.09 FAF: VIBUC DIST FAF TO MAP: 4.81 THLD: 4.81
- MIN. ALT: WITUD 3000, VIBUC 2700, UBEYI/1.70 NM TO RW15 1700\*
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
- MIN GS INCPT: 2700 GS ALT AT: VIBUC 2700 OM: MM: IM:
- GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR
- MSA FROM: RW15 2900

MAG VAR: 2E EPOCH YEAR: 2000

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	1377	1	250	1377	1	250	1377	1	250		NA				
LNAV/VNAV DA	1389	1	262	1389	1	262	1389	1 1/8	262		NA				
LNAV MDA	1540	1	413	1540	1	413	1540	1 1/8	413		NA				
CIRCLING	1560	1	433	1620	1	493	1760	1 3/4	633		NA				

NOTES:  
 CHART NOTE: BARO-VNAV NA WHEN USING OWATONNA ALTIMETER SETTING.  
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F).  
 CHART NOTE: PROCEDURE NA AT NIGHT.  
 CHART NOTE: DME/DME RNP-0.3 NA.  
 (SEE FORM 8260-10)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY  
CHECKED

CITY AND STATE WASECA, MN	ELEVATION: 1127 THRE: 1127 AIRPORT NAME: WASECA MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 15, AMDT 1 22 AUGUST 2013	SUP:
				AMDT: ORIG
				DATED 01/15/2009

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.

NOTES, (CONT.):

CHART PROFILE NOTE: VGSJ AND RNAV GLIDEPATH NOT COINCIDENT.

\*RNAV ONLY

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MKT VOR/DME ON V456 SOUTHBOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT PRGS ON V505 NORTHBOUND.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE OWATONNA ALTIMETER SETTING AND INCREASE

ALL DA 34 FEET AND ALL MDA 40 FT; INCREASE RNAV AND CIRCLING CAT C VISIBILITY 1/4 MILE.

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.

QUALITY  
CHECKED

CITY AND STATE  
WASECA, MN

ELEVATION: 1127 THRE: 1127  
AIRPORT NAME:  
WASECA MUNI

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 15, AMDT 1  
22 AUGUST 2013

SUP:  
AMDT: ORIG  
DATED: 01/15/2009

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR 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.

FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KACQ
RUNWAY	RW15
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W15A
LTP/FTP LATITUDE	440439.8020N
LTP/FTP LONGITUDE	0933320.7600W
LTP/FTP ELLIPSOIDAL HEIGHT	+03147
FPAP LATITUDE	440319.4300N
FPAP LONGITUDE	0933226.8300W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1712
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

12E553DA

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03434
FPAP ORTHOMETRIC HEIGHT	+03434

QUALITY  
CHECKED

CITY AND STATE  WASECA, MN	ELEVATION: 1127      THRE: 1127 AIRPORT NAME:  WASECA MUNI	FACILITY IDENTIFIER:  RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 15, AMDT 1 22 AUGUST 2013	SUP:
				AMDT:      ORIG
				DATED:      01/15/2009

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.

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KACQK3FR15	AMKT	010MKT	K3D 0V A	IF					18000		A JS	
SUSAP	KACQK3FR15	AMKT	020WITUDK3EA0EE	B	010TF		08140107	+	03000			A JS	
SUSAP	KACQK3FR15	APRAGS	010PRAGSK3EA0E	A	IF					18000		A JS	
SUSAP	KACQK3FR15	APRAGS	020WITUDK3EA0EE	B	010TF		20150184	+	03000			A JS	
SUSAP	KACQK3FR15	AWITUD	010WITUDK3EA0EE	AR	HF		15210040	+	03000	18000		A JS	
SUSAP	KACQK3FR15	R	010WITUDK3EA0E	I	IF			+	03000	18000		A JS	
SUSAP	KACQK3FR15	R	020VIBUCK3EA1E	F	051TF		15210060	+	02700		RW15	K3PGA	JS
SUSAP	KACQK3FR15	R	020VIBUCK3EA2WALPV			ALNAV/VNAV	ALNAV						JS
SUSAP	KACQK3FR15	R	021UBEYIK3EA0E	S	031TF		15210031	V	0170001709		-300		A JS
SUSAP	KACQK3FR15	R	030RW15	K3PGOGY	M 031TF		15210017		01167		-300		A JS
SUSAP	KACQK3FR15	R	040	0 M	CA		1521	+	01377				A JS
SUSAP	KACQK3FR15	R	050VUYUNK3EA0EY		DF		1521	+	03000				A JS
SUSAP	KACQK3FR15	R	060VUYUNK3EA0EE	R	HM		33220040	+	03000				A JS

[illegible][illegible]

SUP:	
AMDT:	ORIG
DATED:	01/15/2009

<sup>1</sup>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. <sup>2</sup>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.

[illegible]

SUP:	
AMDT:	ORIG
DATED:	01/15/2009

Page 5 of 6 Pages

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

**ARINC SUMMARY - 424-18 - RNAV (GPS)**

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
MKT		MKT	010	IAF	IF		FB					
MKT		WITUD	020		TF		FB	1.0	081.4 (083.4T)	010.7	AA 03000	
PRAGS		PRAGS	010	IAF	IF		FB					
PRAGS		WITUD	020		TF		FB	1.0	201.5 (203.5T)	018.4	AA 03000	
WITUD		WITUD	010	IAF	HF	R	FO		152.1 (154.1T)	004.0	AA 03000	
		WITUD	010	FACF	IF		FB				AA 03000	
		VIBUC	020	FAF	TF		FB	0.5	152.1 (154.1T)	006.0	AA 02700	
		UBEYI	021	SDF	TF		FB	0.3	152.1 (154.1T)	003.1	AA 01700	GS 01709
		RW15	030	MAP	TF		FO	0.3	152.1 (154.1T)	001.7	AT 01167	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		152.1 (154.1T)		AA 01377	
	VUYUN	050		DF		FO		152.1 (154.1T)		AA 03000	
	VUYUN	060		HM	R	FO		332.2 (334.2T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	MKT	N441311.66	W0935444.48	N4413.194	W09354.741
	PRAGS	N443115.56	W0932945.22	N4431.259	W09329.754
	UBEYI	N440611.37	W0933422.55	N4406.190	W09334.376
	VIBUC	N440859.50	W0933615.90	N4408.992	W09336.265
	VUYUN	N435418.72	W0932624.21	N4354.312	W09326.404
	WITUD	N441425.19	W0933955.88	N4414.420	W09339.931
	RW15	N440439.60	W0933320.76	N4404.660	W09333.346

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW15	01127	40

QUALITY  
9  
CHECKED

CITY AND STATE <b>WASECA, MN</b>	ELEVATION: 1127      THRE: 1127	FACILITY IDENTIFIER:  <b>RNAV</b>	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: <b>WASECA MUNI</b>		<b>RNAV (GPS) RWY 15, AMDT 1</b>	AMDT: <b>ORIG</b>
			22 AUGUST 2013	DATED: <b>01/15/2009</b>