

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: RW31 CLIMB TO 2800 DIRECT BEESE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 125.58 INBOUND. CHART FAS OBST: 1239 TREE 450645N/0950626W DISTANCE TO THLD FROM 200 HATH: 0.47 NM. CHART VDP AT 1.02 MILES TO RW31* *LNAV ONLY. WAAS CHANNEL # 72632 REFERENCE PATH ID: W31A LTP HAE: 316.5 M											
CLAPS	HEPIV (FO)	099.10 / 17.62	2800												
ARMUW	HEPIV (FO)	152.52 / 29.49	3100												
RWF VOR/DME (IAF)	HEPIV (NOPT) (FB)	011.71 / 32.74	2800												
DWN VORTAC (IAF)	HEPIV (NOPT) (FB)	250.11 / 20.64	2800												
HEPIV (IF/IAF)	FIKIG (FB)	305.89 / 6.20	2800												
FIKIG (FAF)	ZONUL/1.60 NM TO RW31 (FB)	305.80 / 3.50													
(SEE FORM 8260-10)															
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD SE HEPIV, RT, 305.89 INBOUND, 2800 FT. IN LIEU OF PT (IAF) 3. FAC: <u>305.80</u> FAF: <u>FIKIG</u> DIST FAF TO MAP: <u>5.10</u> THLD: <u>5.10</u> 4. MIN. ALT: HEPIV 2800, FIKIG 2800, ZONUL/1.60 NM TO RW31 1680* 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: <u>2800</u> GS ALT AT: <u>FIKIG 2800</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>49.2</u> 34:1 IS CLEAR 8. MSA FROM: RW31 3100				MAG VAR: 4E 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	1326	3/4	200	1326	3/4	200	1326	3/4	200	1326	3/4	200			
LNAV/VNAV DA	1527	1 3/8	401	1527	1 3/8	401	1527	1 3/8	401	1527	1 3/8	401			
LNAV MDA	1500	1	374	1500	1	374	1500	1	374	1500	1	374			
CIRCLING	1620	1	494	1620	1	494	1620	1 1/2	494	1680	2	554			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE. CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CLAPS ON V78 WESTBOUND AND ARRIVALS AT ARMUW ON V175 NORTHBOUND. (SEE FORM 8260-10)															
CITY AND STATE			ELEVATION: 1126 THRE: 1126			FACILITY IDENTIFIER: RNAV			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:		
WILLMAR, MN			AIRPORT NAME:			WILLMAR MUNI-JOHN L RICE FIELD			RNAV (GPS) RWY 31, AMDT 1 2 MAY 2013				AMDT: ORIG		
													DATED 12/21/2006		

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
ZONUL/1.60 NM TO RW31	RW31 (MAP) (FO)	305.80 / 1.60	
RW31 (MAP)	1326 MSL	305.80	
1326 MSL	BEESE (FO)		2800

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON RWF VOR/DME AIRWAY RADIALS 283 CW 076 AND ARRIVALS ON DWN VORTAC AIRWAY RADIALS 261 CW 321.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED USE OLIVIA ALTIMETER SETTING AND INCREASE ALL DA 55 FT AND ALL MDA 60 FT AND INCREASE LNAV/VNAV ALL CATS VISIBILITY 1/8 MILE AND LNAV CATS C AND D VISIBILITY 1/4 MILE.

CHART NOTE: BARO-VNAV AND VDP NA WITH OLIVIA ALTIMETER SETTING.

CITY AND STATE

WILLMAR, MN

ELEVATION: 1126

THRE: 1126

AIRPORT NAME:

WILLMAR MUNI-JOHN L RICE FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 31, AMDT 1

2 MAY 2013

SUP:

AMDT: ORIG

DATED: 12/21/2006

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 KBDH
RUNWAY RW31
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR 0
REFERENCE PATH DATA SELECTOR W31A
REFERENCE PATH IDENTIFIER (APPROACH ID) 450646.4320N
LTP/FTP LATITUDE 0950726.7690W
LTP/FTP LONGITUDE +03165
LTP/FTP ELLIPSOIDAL HEIGHT 450743.3700N
FPAP LATITUDE 0950903.5400W
FPAP LONGITUDE 00049.2
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) 35.0
VERTICAL ALERT LIMIT (VAL)

CRC REMAINDER

E8A9F9E4

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K3
LTP ORTHOMETRIC HEIGHT +03432
FPAP ORTHOMETRIC HEIGHT +03432

QUALITY
2
CHECKED

CITY AND STATE

WILLMAR, MN

ELEVATION: 1126

THRE: 1126

AIRPORT NAME:

WILLMAR MUNI-JOHN L RICE FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 31, AMDT 1

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[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KBDHK3FR31	AARMUW	010ARMUWK3EA0E	IF						18000		A JS	
SUSAP	KBDHK3FR31	AARMUW	020HEPIVK3EA0EY	020TF			15250295	+ 03100				A JS	
SUSAP	KBDHK3FR31	AARMUW	030HEPIVK3EA0EE	AR HF			30590040	+ 02800				A JS	
SUSAP	KBDHK3FR31	ACLAPS	010CLAPSK3EA0E	IF						18000		A JS	
SUSAP	KBDHK3FR31	ACLAPS	020HEPIVK3EA0EY	020TF			09910176	+ 02800				A JS	
SUSAP	KBDHK3FR31	ACLAPS	030HEPIVK3EA0EE	AR HF			30590040	+ 02800				A JS	
SUSAP	KBDHK3FR31	ADWN	010DWN K3D 0V	A IF						18000		A JS	
SUSAP	KBDHK3FR31	ADWN	020HEPIVK3EA0EE	B 010TF			25010206	+ 02800				A JS	
SUSAP	KBDHK3FR31	ARWF	010RWF K3D 0V	A IF						18000		A JS	
SUSAP	KBDHK3FR31	ARWF	020HEPIVK3EA0EE	B 010TF			01170327	+ 02800				A JS	
SUSAP	KBDHK3FR31	R	010HEPIVK3EA0E	I IF				+ 02800		18000		A JS	
SUSAP	KBDHK3FR31	R	020FIKIGK3EA1E	F 051TF			30590062	+ 02800			RW31 K3PGA	JS	
SUSAP	KBDHK3FR31	R	020FIKIGK3EA2WALPV		ALNAV/VNAV	ALNAV						JS	
SUSAP	KBDHK3FR31	R	021ZONULK3EA0E	S 031TF			30580035	V 0168001685		-300		A JS	
SUSAP	KBDHK3FR31	R	030RW31 K3PGOGY	M 031TF			30580016	01175		-300		A JS	
SUSAP	KBDHK3FR31	R	040	0 M CA			3058	+ 01326				A JS	
SUSAP	KBDHK3FR31	R	050BEESEK3EA0EY	DF				+ 02800				A JS	
SUSAP	KBDHK3FR31	R	060BEESEK3EA0EE	R HM			12560040	+ 02800				A JS	

SUP:	
AMDT:	ORIG
DATED:	12/21/2006

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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RUNWAY 1234567890123456789012345678901234567890123456789012345678901234567890123456789012
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SUSAP KBDHK3GRW31 0055003057 N45064643W095072677+0000 +0316501126000049100R

1 2 3 4 5 6 7 8 9 0 1 2 3
PP 1234567890123456789012345678901234567890123456789012345678901234567890123456789012
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SUSAP KBDHK3PR31 RW31 001 0000W31A0N4506464320W09507267690+031650300N4507433700W09509035400106751072000492F400350E8A9F9E4
SUSAP KBDHK3PR31 RW31 002E +03432+03432LPV 72632

1 2 3 4 5 6 7 8 9 0 1 2 3
MSA 1234567890123456789012345678901234567890123456789012345678901234567890123456789012
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SUSAP KBDHK3SRW31 K3PG 0 18018003125 M
  
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QUALITY
A
CHECKED

CITY AND STATE WILLMAR, MN	ELEVATION: 1126	THRE: 1126	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 31, AMDT 1 2 MAY 2013	SUP:
	AIRPORT NAME: WILLMAR MUNI-JOHN L RICE FIELD				AMDT: ORIG
					DATED: 12/21/2006

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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
ARMUW	ARMUW	ARMUW	010		IF		FB					
ARMUW	HEPIV	HEPIV	020		TF		FO	2.0	152.5 (156.5T)	029.5	AA 03100	
ARMUW	HEPIV	HEPIV	030	IAF	HF	R	FO		305.9 (309.9T)	004.0	AA 02800	
CLAPS	CLAPS	CLAPS	010		IF		FB					
CLAPS	HEPIV	HEPIV	020		TF		FO	2.0	099.1 (103.1T)	017.6	AA 02800	
CLAPS	HEPIV	HEPIV	030	IAF	HF	R	FO		305.9 (309.9T)	004.0	AA 02800	
DWN	DWN	DWN	010	IAF	IF		FB					
DWN	HEPIV	HEPIV	020		TF		FB	1.0	250.1 (254.1T)	020.6	AA 02800	
RWF	RWF	RWF	010	IAF	IF		FB					
RWF	HEPIV	HEPIV	020		TF		FB	1.0	011.7 (015.7T)	032.7	AA 02800	
	HEPIV	HEPIV	010	FACF	IF		FB				AA 02800	
	FIKIG	FIKIG	020	FAF	TF		FB	0.5	305.9 (309.9T)	006.2	AA 02800	
	ZONUL	ZONUL	021	SDP	TF		FB	0.3	305.8 (309.8T)	003.5	AA 01680 GS 01685	
	RW31	RW31	030	MAP	TF		FO	0.3	305.8 (309.8T)	001.6	AT 01175	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		305.8 (309.8T)		AA 01326	
	BEESE	050		DF		FO				AA 02800	
	BEESE	060		HM	R	FO		125.6 (129.6T)	004.0	AA 02800	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	DWN	N450514.87	W0942713.86	N4505.248	W09427.231
	RWF	N442802.19	W0950741.63	N4428.037	W09507.694
	ARMUW	N452636.41	W0951145.54	N4526.607	W09511.759
	BEESE	N451433.78	W0952043.73	N4514.563	W09520.729
	CLAPS	N450334.50	W0951923.36	N4503.575	W09519.389
	FIKIG	N450330.61	W0950154.67	N4503.510	W09501.911
	HEPIV	N445932.37	W0945512.12	N4459.540	W09455.202
	ZONUL	N450545.05	W0950542.56	N4505.751	W09505.709
	RW31	N450646.43	W0950726.77	N4506.774	W09507.446

RUNWAY DATA	THRESHOLD	ELEVATION	TCH
RWY			
RW31	01126		49

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