

**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	MAP: DA
HIA VORTAC	SUZZY (TF) (FB) (RNP 2.00)	022.00/18.39	10500	CLIMB TO 13000 ON TRACK 266.72 TO ZEKSA, THEN ON TRACK 266.68 TO MUSEW, THEN ON TRACK 266.60 TO JEBSI, THEN ON TRACK 261.40 TO KELTY, THEN ON TRACK 271.16 TO PIXXI AND HOLD, CONTINUE CLIMB-IN-HOLD TO 13000.  ADDITIONAL FLIGHT DATA: HOLD W, RT, 086.40 INBOUND CHART FAS OBST: 3956 OL NDB 463624N/1115614W  DISTANCE TO THLD FROM 288 HATH: 0.73 NM
SUZZY (IAF)	FAVTA (TF) (FB) (RNP 1.00)	026.83/20.30	9100	
HLN VORTAC (IAF)	CEMLI (TF) (FB) (RNP 1.00)	153.20/10.69	10000	
CEMLI	DULCA (RF) (FB) (RNP 0.70)	(8.90 NM RADIUS CCW YQAV)/11.85	10000	
DULCA	FAVTA (RF) (FB) (RNP 0.70)	(7.40 NM RADIUS CCW OFDEJ)/6.44	9000	
FAVTA	BOSCA (RF) (FB) (RNP 0.70)	(7.40 NM RADIUS CCW OFDEJ)/15.52	7200	
URELE (IAF)	FALDE (TF) (FB) (RNP 0.50)	169.19/20.96	9300	
LINGE (IAF)	FALDE (TF) (FB) (RNP 1.00)	222.67/17.50 (CONT'D ON PAGE 2)	9000	

- PT        SIDE OF COURSE        OUTBOUND        FT WITHIN        MILES OF        (IAF)
- PROFILE STARTS AT BOSCA
- FAC: 266.85 FAF:        DIST FAF TO MAP:        THLD:
- MIN. ALT: **BOSCA 7200**
- DIST TO THLD FROM OM: 7.99 MM:        IM:        150 HAT:        100 HAT:        GS ANT:
- MIN GS INCPT: 6500 GS ALT AT: JEXUT 6500 OM:        MM:        IM:
- GS ANGLE: 3.00 TCH: 54.5# 34:1 IS CLEAR
- MSA FROM: RW27 10700

ROUTE TYPE: **A, H**  
ROUTE TYPE QUALIFIER 1: **F**  
ROUTE TYPE QUALIFIER 2: **S**

#TCH 3899.2 MSL (DO NOT CHART)

MAG VAR: **16E** EPOCH YEAR: **1990**

**MINIMUMS**

TAKEOFF:	STANDARD	X	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	

**AUTHORIZATION REQUIRED**

RNP 0.22 DA*	4133	1/2	288	4133	1/2	288	4133	1/2	288	4133	1/2	288			
RNP 0.30 DA**	4287	1	442	4287	1	442	4287	1	442	4287	1	442			

NOTES: CHART NOTE: GPS REQUIRED.

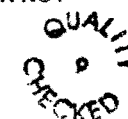
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -22C (-7F) OR ABOVE 41C (105F).

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE RNP 0.22\* VISIBILITY TO 1, AND RNP 0.30\*\* VISIBILITY TO 1 1/2.

CHART NOTE: MISSED APPROACH REQUIRES RNP LESS THAN 1.0.

(CONT'D ON 8260-10)

@NA WHEN LOCAL WEATHER NOT AVAILABLE



CITY AND STATE	ELEVATION: <u>3877</u> TDZE:	THRE: <u>3845</u>	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
<u>HELENA, MT</u>	AIRPORT NAME: <u>HELENA RGNL</u>		<u>RNAV</u>	<u>RNAV (RNP) Y RWY 27, ORIG-B</u> <u>10 JANUARY 2013</u>	AMDT: <u>ORIG-A</u>
					DATE: <u>06/30/11</u>

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV

STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES 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 (CONT'D)

FROM	TO	COURSE AND DISTANCE	ALTITUDE
HEXOL (IAF)	FALDE (TF) (FB) (RNP 0.50)	253.58/15.22	9000
FALDE	BOSCA (TF) (FB) (RNP 0.50)	222.47/6.45	7200
SWEDD (IAF)	BOSCA (TF) (FB) (RNP 1.00)	307.86/7.83	7200
BOSCA (IF)	JEXUT (TF) (FB) (RNP 0.50)	266.93/5.01	6500
JEXUT (FAF)	RW27 (TF) (FB)	266.85/7.99	
RW27 (MAP)	ZEKSA (TF) (FB) (RNP 0.35)	266.72/2.18	
ZEKSA	MUSEW (TF) (FB) (RNP 0.80)	266.68/4.49	
MUSEW	JEBSI (TF) (FB) (RNP 1.00)	266.60/3.69	
JEBSI	KELTY (TF) (FB) (RNP 1.00)	261.40/9.61	
KELTY	PIXXI (TF) (FO) (RNP 1.00)	271.16/11.87	13000

NOTES (CONT'D)

CHART NOTE: \*MISSED APPROACH REQUIRES MINIMUM CLIMB OF 290 FEET PER NM TO 7700; IF UNABLE, SEE RNAV (RNP) Z RWY 27.  
 CHART NOTE: \*\*MISSED APPROACH REQUIRES MINIMUM CLIMB OF 270 FEET PER NM TO 7600; IF UNABLE, SEE RNAV (RNP) Z RWY 27.  
 CHART PLANVIEW NOTE AT URELE: MAX 240 KIAS UNTIL FALDE.  
 CHART PLANVIEW NOTE AT DULCA AND FAVTA: MAX 230 KIAS  
 CHART PLANVIEW NOTE ADJACENT TO HIA VOR/DME, SUZZY, HLN VORTAC: RF REQUIRED  
 CHART PLANVIEW NOTE AT HIA VOR/DME, SUZZY, HLN VORTAC IAF, URELE, LINGE, HEXOL, SWEDD: (RNP 0.50)  
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON HIA VOR/DME AIRWAY RADIALS 276 CW 185 AND FOR ARRIVALS ON HLN VORTAC AIRWAY RADIALS 009 CW 255 AND FOR ARRIVALS AT SUZZY ON V343 WESTBOUND.

CITY AND STATE  HELENA, MT	ELEVATION: 3877 TDZE:	FACILITY IDENTIFIER:  RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:  RNAV (RNP) Y RWY 27, ORIG-B 10 JANUARY 2013	SUP:
	AIRPORT NAME: HELENA RGNL			AMDT: ORIG-A
				DATED: 06/30/2011





**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (RNP) 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 (RNP)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	HEXOL	HEXOL	010	IAF	IF		FB					
	HEXOL	FALDE	020		TF		FB	0.5			AA 09000	
	HEXOL	BOSCA	030		TF		FB	0.5			AA 07200	
	HIA	HIA	010		IF		FB					
	HIA	SUZZY	020	IAF	TF		FB	2.0			AA 10500	
	HIA	FAVTA	030		TF		FB	1.0			AA 09100	AB 230
	HIA	BOSCA	040		RF	L	FB	0.7		015.5	AA 07200	
	HLN	HLN	010	IAF	IF		FB					
	HLN	CEMLI	020		TF		FB	1.0			AA 10000	
	HLN	DULCA	030		RF	L	FB	0.7		011.9	AA 10000	AB 230
	HLN	FAVTA	040		RF	L	FB	0.7		006.4	AA 09000	AB 230
	HLN	BOSCA	050		RF	L	FB	0.7		015.5	AA 07200	
	LINGE	LINGE	010	IAF	IF		FB					
	LINGE	FALDE	020		TF		FB	1.0			AA 09000	
	LINGE	BOSCA	030		TF		FB	0.5			AA 07200	
	SWEDD	SWEDD	010	IAF	IF		FB					
	SWEDD	BOSCA	020		TF		FB	1.0			AA 07200	
	URELE	URELE	010	IAF	IF		FB					
	URELE	FALDE	020		TF		FB	0.5			AA 09300	AB 240
	URELE	BOSCA	030		TF		FB	0.5			AA 07200	
		BOSCA	010	FACF	IF		FB				AA 07200	
		JEXUT	020	FAF	TF		FB	0.5			AA 06500	
		RW27	030	MAP	TF		FB	0.3			AT 03899	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ZEKSA	040		TF		FB	0.35				
	MUSEW	050		TF		FB	0.8				
	JEBSE	060		TF		FB	1.0				
	KELTY	070		TF		FB	1.0				
	PIXXI	080		TF		FO	1.0			AA 13000	
	PIXXI	090		HM	R	FO		086.4 (102.4T)	008.0	AA 13000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	HIA	N455142.44	W1121010.59	N4551.707	W11210.177
	HLN	N463624.56	W1115712.51	N4636.409	W11157.209
	BOSCA	N463317.74	W1113923.40	N4633.296	W11139.390
	CEMLI	N462554.64	W1115418.79	N4625.911	W11154.313
	DULCA	N461841.87	W1114219.82	N4618.698	W11142.330
	FALDE	N463640.26	W1113125.62	N4636.671	W11131.427
	FAVTA	N462101.82	W1113358.76	N4621.030	W11133.979

CITY AND STATE <b>HELENA, MT</b>	ELEVATION: <b>3877</b> THRE: <b>3845</b>	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: <b>HELENA RGNL</b>	<b>RNAV</b>	<b>RNAV (RNP) Y RWY 27, ORIG-B</b> 10 JANUARY 2013	AMDT: <b>ORIG-A</b>
				DATED: <b>06/30/11</b>

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (RNP) 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.

HEXOL	N463649.09	W1110920.70	N4636.818	W11109.345
IYQAV	N462734.98	W1114140.32	N4627.583	W11141.672
JEB SI	N463826.60	W1121226.10	N4638.443	W11212.435
JEXUT	N463424.78	W1114628.14	N4634.413	W11146.469
KELTY	N463939.96	W1122616.33	N4639.666	W11226.272
LINGE	N464548.09	W1110944.75	N4645.802	W11109.746
MUSEW	N463738.41	W1120712.31	N4637.640	W11207.205
OFDEJ	N462605.14	W1114147.06	N4626.086	W11141.784
PIXXI	N464308.80	W1124245.55	N4643.147	W11242.759
SUZZY	N460610.58	W1115354.27	N4606.176	W11153.905
SWEDD	N462658.45	W1113241.66	N4626.974	W11132.694
URELE	N465732.17	W1112840.58	N4657.536	W11128.676
ZEKSA	N463639.51	W1120051.11	N4636.659	W11200.852
RW27	N463610.76	W1115745.96	N4636.179	W11157.766

**RUNWAY DATA**

RWY	THRESHOLD ELEVATION	TCH
RW27	03845	55

CITY AND STATE <b>HELENA, MT</b>	ELEVATION: <b>3877</b> THRE: <b>3845</b>	FACILITY IDENTIFIER:  <b>RNAV</b>	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: <b>HELENA RGNL</b>		<b>RNAV (RNP) Y RWY 27, ORIG-B</b>	AMDT: <b>ORIG-A</b>
			<b>10 JANUARY 2013</b>	DATED: <b>06/30/11</b>