

U.S. 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												
HIA VORTAC (40V)	SUZZY (TF) (FB) (RNP 2.00) (40E) (43A)	022.00/18.39	10500	MAP: DA											
SUZZY (IAF) (40E) (43A)	FAVTA (TF) (FB) (RNP 1.00) (40E)	026.83/20.30	9100												
HLN VORTAC (IAF) (40V) (43A)	CEMLI (TF) (FB) (RNP 1.00) (40E)	153.20/10.69	10000	CLIMB TO 13000 VIA 266.72 TRACK TO JEBSI, AND VIA 261.40 TRACK TO KELTY, AND VIA 271.16 TRACK TO PIXXI AND HOLD, CONTINUE CLIMB-IN-HOLD TO 13000.											
CEMLI (40E)	DULCA (RF) (FB) (RNP 0.70) (40E)	(8.90 NM RADIUS CCW IYQAVY)11.85	10000												
DULCA (40E)	FAVTA (RF) (FB) (RNP 0.70) (40E)	(7.40 NM RADIUS CCW OFDEJY)6.44	9000	ADDITIONAL FLIGHT DATA: HOLD W, RT, 086.40 INBOUND CHART FAS OBST: 3956 OL NDB 463624N/1115614W											
FAVTA (40E)	BOSCA (RF) (FB) (RNP 0.70) (40E) (41E)	(7.40 NM RADIUS CCW OFDEJY)15.52	7200												
URELE (IAF) (40E) (43A)	FALDE (TF) (FB) (RNP 0.50) (40E)	169.19/20.96	9300	DISTANCE TO THLD FROM 267 HAT: 0.69 NM ROUTE TYPE: A, R ROUTE TYPE QUALIFIER 1: P ROUTE TYPE QUALIFIER 2: S											
LINGE (IAF) (40E) (43A)	FALDE (TF) (FB) (RNP 1.00) (40E)	222.67/17.50 (CONT'D ON PAGE 2)	9000												
1. PT NA SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)				#TCH 3899.2 MSL (DO NOT CHART) MAG VAR: 16E EPOCH YEAR: 1990											
2. PROFILE STARTS AT BOSCA															
3. FAC: 266.85 FAF: DIST FAF TO MAP: THLD:															
4. MIN. ALT: BOSCA 7200															
5. DIST TO THLD FROM OM: 7.99 MM: IM: 150 HAT: 100 HAT: GS ANT:															
6. MIN GS INCPT: 8500 GS ALT AT: JEXUT 6500 OM: MM: IM:															
7. GS ANGLE: 3.00 TCH: 54.5# 34:1 IS CLEAR															
8. MSA FROM: RW27 10700															
MINIMUMS															
TAKEOFF:	STANDARD	X	SEE FAA FORM 8260-15A FOR THIS AIRPORT	ALTERNATE: N A	@1000-4										
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
SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED															
RNP 0.18 DA*	4119	1/2	267	4119	1/2	267	4119	1/2	267	4119	1/2	267			
RNP 0.22 DA**	4212	3/4	360	4212	3/4	360	4212	3/4	360	4212	3/4	360			
RNP 0.30 DA***	4287	1	435	4287	1	435	4287	1	435	4287	1	435			
NOTES: CHART NOTE: GPS REQUIRED. @NA WHEN LOCAL WEATHER NOT AVAILABLE															
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -22C (-7F) OR ABOVE 41C (105F).															
CHART NOTE: *MISSED APPROACH REQUIRES MINIMUM CLIMB OF 295 FEET PER NM TO 7900.															
CHART NOTE: **MISSED APPROACH REQUIRES MINIMUM CLIMB OF 290 FEET PER NM TO 7300.															
CHART NOTE: ***MISSED APPROACH REQUIRES MINIMUM CLIMB OF 405 FEET PER NM TO 6300.															
(CONT'D ON PAGE 2)															
CITY AND STATE		ELEVATION: 3877 TDZE: 3852		FACILITY IDENTIFIER: RNAV		PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: 07 MAY 2009 RNAV (RNP) Z RWY 27, ORIG				SUP: NONE					
HELENA, MT		HELENA RGNL								DATE					

QUALITY
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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TERMINAL ROUTES (CONT'D)

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
HEXOL (IAF) (40E) (43A)	FALDE (TF) (FB) (RNP 0.50) (40E)	253.58/15.22	9000
FALDE (40E)	BOSCA (TF) (FB) (RNP 0.50) (40E) (41E)	222.47/8.45	7200
SWEDD (IAF) (40E) (43A)	BOSCA (TF) (FB) (RNP 1.00) (40E) (41E)	307.86/7.83	7200
BOSCA (IF) (40E) (43I)	JEXUT (TF) (FB) (RNP 0.50) (40E) (43F)	266.83/5.01	6500
JEXUT (FAF) (40E) (43F)	RW27 (TF) (FO) (40G) (41Y) (43M)	266.85/7.99	
RW27 (MAP) (40G) (41Y) (43M)	JEBSI (TF) (FB) (RNP 1.00) (40E) (42M)	266.72/10.36	
JEBSI (40E) (42M)	KELTY (TF) (FB) (RNP 1.00) (40E)	261.40/9.81	
KELTY (40E)	PIXXI (TF) (FB) (RNP 1.00) (40E) (41E) (43H)	271.16/11.87	13000

NOTES (CONT'D)

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE RNP 0.18* VISIBILITY TO 1, RNP 0.22** VISIBILITY TO 1 1/4, AND RNP 0.30*** VISIBILITY TO 1 1/2. INOPERATIVE TABLE DOES NOT APPLY TO RNP 0.30.

CHART PLANVIEW NOTE AT FALDE: MAX 240 KIAS VIA URELE

CHART PLANVIEW NOTE AT DULCA AND FAVTA: MAX 230 KIAS

CHART PLANVIEW NOTE AT HIA VORTAC, SUZZY, HLN VORTAC: (RF REQUIRED)

CHART PLANVIEW NOTE AT HIA VORTAC, SUZZY, HLN VORTAC, URELE, LINGE, HEXOL, SWEDD: (RNP 0.50)

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON HIA VORTAC AIRWAY RADIALS 276 CW 185 AND FOR ARRIVALS ON HLN VORTAC AIRWAY RADIALS 009 CW 265 AND FOR ARRIVALS AT SUZZY VIA V343 WESTBOUND.

MINIMUMS (CONT'D)

RNP 0.30 DA DA 4863, HAT 1011, VIS 4; CATS A, B, C, D.

CITY AND STATE	ELEVATION: 3877 TDZE: 3852	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
HELENA, MT	AIRPORT NAME: HELENA RGNL	RNAV	07 MAY 2009 RNAV (RNP) Z RWY 27, ORIG	AMDT: NONE
				DATED:

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ARINC FLIGHT INSPECTION SUMMARY - VERSION 424-16

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE
	HEXOL	HEXOL	010	IAF	IF		FB				
	HEXOL	FALDE	020	SDF	TF		FB	0.5	253.6 (270T)	015.2	09000
	HEXOL	BOSCA	030		TF		FB	0.5	222.5 (238T)	006.5	07200
	HIA	HIA	010		IF		FB				
	HIA	SUZZY	020	IAF	TF		FB	2.0	022.0 (038T)	018.4	10500
	HIA	FAVTA	030	SDF	TF		FB	1.0	026.8 (043T)	020.3	09100
	HIA	BOSCA	040		RF	L	FB	0.7		015.5	07200
	HLN	HLN	010	IAF	IF		FB				
	HLN	CEMLI	020	SDF	TF		FB	1.0	153.2 (169T)	010.7	10000
	HLN	DULCA	030	SDF	RF	L	FB	0.7		011.9	10000
	HLN	FAVTA	040	SDF	RF	L	FB	0.7		006.4	09000
	HLN	BOSCA	050		RF	L	FB	0.7		015.5	07200
	LINGE	LINGE	010	IAF	IF		FB				
	LINGE	FALDE	020	SDF	TF		FB	1.0	222.7 (239T)	017.5	09000
	LINGE	BOSCA	030		TF		FB	0.5	222.5 (238T)	006.5	07200
	SUZZY	SUZZY	010	IAF	IF		FB				
	SUZZY	FAVTA	020	SDF	TF		FB	1.0	026.8 (043T)	020.3	09100
	SUZZY	BOSCA	030		RF	L	FB	0.7		015.5	07200
	SWEDD	SWEDD	010	IAF	IF		FB				
	SWEDD	BOSCA	020		TF		FB	1.0	307.9 (324T)	007.8	07200
	URELE	URELE	010	IAF	IF		FB				
	URELE	FALDE	020	SDF	TF		FB	0.5	169.2 (185T)	021.0	09300
	URELE	BOSCA	030		TF		FB	0.5	222.5 (238T)	006.5	07200
		BOSCA	010	FACF	IF		FB				07200
		JEXUT	020	FAF	TF		FB	0.5	266.9 (283T)	005.0	06500
		RW27	030	MAP	TF		FO	0.3	266.9 (283T)	008.0	03899 MAN
MISSED APPROACH											
		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE
		JEBBI	040		TF		FB	1.0	266.7 (283T)	010.4	
		KELTY	050		TF		FB	1.0	261.4 (277T)	009.6	
		PIXXI	060		TF		FB	1.0	271.2 (287T)	011.9	13000
		PIXXI	070		HM	R	FO	2.0	066.4 (102T)	008.0	13000

(CONT'D ON PAGE 4)

CITY AND STATE HELENA, MT	ELEVATION: 3877 TDZE: 3852	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: 07 MAY 2009 RNAV (RNP) Z RWY 27, ORIG	SUP:
	AIRPORT NAME: HELENA RGNL			AMDT: NONE
				DATED:

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ARINC FLIGHT INSPECTION SUMMARY - VERSION 424-18

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	BOSCA	463317.74N	1113923.40W	4633.296N	11139.390W
	CEMLI	462554.64N	1115416.79W	4625.911N	11154.313W
	DULCA	461841.87N	1114219.82W	4618.698N	11142.330W
	FALDE	463640.26N	1113125.82W	4636.671N	11131.427W
	FAVTA	462101.82N	1113358.76W	4621.030N	11133.979W
	IYQAV	462734.98N	1114140.32W	4627.583N	11141.672W
	HEXOL	463849.09N	1110920.70W	4638.818N	11109.345W
	HIA VORTAC	455142.44N	1121010.59W	4551.707N	11210.177W
	HLN VORTAC	463824.58N	1115712.51W	4638.409N	11157.209W
	JEBSE	463826.60N	1121226.10W	4638.443N	11212.435W
	JEXUT	463424.78N	1114628.14W	4634.413N	11146.469W
	KELTY	463939.96N	1122616.33W	4639.666N	11226.272W
	LINGE	464548.09N	1110944.75W	4645.802N	11109.746W
	OFDEJ	462605.14N	1114147.06W	4626.086N	11141.784W
	PIXXI	464308.80N	1124245.55W	4643.147N	11242.759W
	SUZZY	460610.58N	1115354.27W	4606.176N	11153.906W
	SWEDD	462658.45N	1113241.86W	4626.974N	11132.694W
	URELE	465732.17N	1112840.58W	4657.536N	11128.676W
	RW27	463810.76N	1115745.96W	4638.179N	11157.768W

RUNWAY DATA	RWY	THLD ELEV	TCH
	27	3845	55

CITY AND STATE

HELENA, MT

ELEVATION:

3877 TDZE:

3852

AIRPORT NAME:

HELENA RGNL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:

07 MAY 2009

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SUP:

AMDT: NONE

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