

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				RNAV (RNP) - 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		RNP: DA						
JAARD (IF)		HOLII (TF) (FB) (RNP 1.00)		146.12 / 3.00				3100		CLIMB TO 3000 ON TRACK 334.42 TO MAMAE AND HOLD.						
SNOBB (IF)		MKENA (TF) (FB) (RNP 1.00)		217.95 / 3.00				2200								
HOLII		CITAA (RF) (FB) (RNP 1.00)		(2.35 NM RADIUS CCW (CFFV))/3.52				2000								
CZASR (IF)		CITAA (TF) (FB) (RNP 1.00)		060.26 / 2.64				2000								
(SEE FORM 8260-10)										ADDITIONAL FLIGHT DATA: HOLD NW, RT, 154.34 INBOUND. CHART FAS OBST: 198 TOWER 325251N/0800046W CHART FAS OBST: 189 POLE 325315N/0800107W DISTANCE TO THLD FROM 397 HATH: 1.09 NM. CHART MINIMUM 4000 AT JAARD ROUTE TYPE: A, H ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S #TCH 88.9 MSL (DO NOT CHART) CHART MANDATORY 3000 AT CZASR AND SNOBB						
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT DELLL 3. FAC: 334.44 FAF: _____ DIST FAF TO MAP: _____ THLD: _____ 4. MIN. ALT: DELLL 1000 5. DIST TO THLD FROM OM: 2.86 MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1000 GS ALT AT: DELLL 1000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 50.9# 34:1 IS CLEAR 8. MSA FROM: RW33 3100										MAG VAR: 7W EPOCH YEAR: 2010						
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
AUTHORIZATION REQUIRED																
RNP 0.23 DA	435	4500	397	435	4500	397	435	4500	397	435	4500	397				
RNP 0.30 DA	509	6000	471	509	6000	471	509	6000	471	509	6000	471				
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -5C (23F) OR ABOVE 54C (130F). CHART NOTE: RF REQUIRED. CHART NOTE: GPS REQUIRED.																
(SEE FORM 8260-10)																
CITY AND STATE		ELEVATION: 46 THRE: 38		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:						SUP:				
CHARLESTON, SC		AIRPORT NAME:				RNAV (RNP) Z RWY 33, ORIG-A						AMDT: ORIG				
		CHARLESTON AFB/INTL				27 JUNE 2013						DATED 07/26/2012				

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
**RNAV (RNP) - 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, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
MKENA	LIVYY (RF) (FB) (RNP 1.00)	(2.30 NM RADIUS CW CFFFW) / 3.47	1300
CITAA	DELLL (RF) (FB) (RNP 1.00)	(2.35 NM RADIUS CCW CFFFW) / 3.52	1000
LIVYY	DELLL (RF) (FB) (RNP 0.50)	(2.30 NM RADIUS CW CFFFW) / 1.21	1000
DELLL (FAF)	RW33 (MAP) (TF) (FO)	334.44 / 2.86	
RW33 (MAP)	MAMAE (TF) (FO) (RNP 1.0)	334.42 / 12.88	3000

NOTES, (CONT.):

CHART PLANVIEW NOTE AT MKENA : MAX 210 KIAS.

CHART PLANVIEW NOTE AT LIVYY : MAX 200 KIAS.

CHART PLANVIEW NOTE AT HOLII : MAX 210 KIAS.

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE RNP 0.23 ALL CATS VISIBILITY TO 1 3/8 AND RNP 0.30 ALL CATS VISIBILITY TO 1 5/8.

CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.

CHART PLANVIEW NOTE AT SNOBB: (RNP 0.50).



CITY AND STATE

CHARLESTON, SC

ELEVATION: 46

THRE: 38

AIRPORT NAME:

CHARLESTON AFB/INTL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

RNAV (RNP) Z RWY 33, ORIG-A

27 JUNE 2013

SUP:

AMDT: ORIG

DATED: 07/26/2012

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]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KCHSK7FH33-Z	ACZSAR	010CZSARK7EA0E	B	IF				03000	18000		A	FS
SUSAP	KCHSK7FH33-Z	ACZSAR	020CITAAK7EA0E		010TF				+ 02000			A	FS
SUSAP	KCHSK7FH33-Z	ACZSAR	030DELLLK7EA0EE	L010RF		0023500603	33440035		+ 01000		CFFFV	K7EAA	FS
SUSAP	KCHSK7FH33-Z	AJAARD	010JAARDK7EA0E	B	IF				+ 04000	18000		A	FS
SUSAP	KCHSK7FH33-Z	AJAARD	020HOLI1K7EA0E		010TF				+ 03100	210		A-FS	
SUSAP	KCHSK7FH33-Z	AJAARD	030CITAAK7EA0E	L010RF		0023501461	06030035		+ 02000		CFFFV	K7EAA	FS
SUSAP	KCHSK7FH33-Z	AJAARD	040DELLLK7EA0EE	L010RF		0023500603	33440035		+ 01000		CFFFV	K7EAA	FS
SUSAP	KCHSK7FH33-Z	ASNOBB	010SNOBK7EA0E	B	IF				03000	18000		A	FS
SUSAP	KCHSK7FH33-Z	ASNOBB	020MKNK7EA0E		010TF				+ 02200	210		A-FS	
SUSAP	KCHSK7FH33-Z	ASNOBB	030LIVYYK7EA0E	R010RF		0023002180	30440035		+ 01300	200	CFFFW	K7EAA-FS	
SUSAP	KCHSK7FH33-Z	ASNOBB	040DELLLK7EA0EE	R051RF		0023003044	33440012		+ 01000		CFFFW	K7EAA	FS
SUSAP	KCHSK7FH33-Z	H	020DELLLK7EA1E	F	IF				+ 01000	18000	RW33	K7PGA	FS
SUSAP	KCHSK7FH33-Z	H	020DELLLK7EA2W					A031A232					FS
SUSAP	KCHSK7FH33-Z	H	030RW33	K7PGOGY	M	031TF			00089	-300		A	FS
SUSAP	KCHSK7FH33-Z	H	040MAMAEK7EA0EYM		010TF				+ 03000			A	FS
SUSAP	KCHSK7FH33-Z	H	050MAMAEK7EA0EE	R	HM		15430040		+ 03000			A	FS

[illegible]

CITY AND STATE CHARLESTON, SC	ELEVATION: 46	THRE: 38	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (RNP) Z RWY 33, ORIG-A 27 JUNE 2013	SUP:	
	AIRPORT NAME: CHARLESTON AFB/INTL				AMDT:	ORIG
					DATED:	07/26/2012

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.

	1	2	3	4	5	6	7	8	9	0	1	2	3	
MSA	1	2	3	4	5	6	7	8	9	0	1	2	3	
	1	2	3	4	5	6	7	8	9	0	1	2	3	
SUSAP KCHSK7SRW33 K7PG						0	1	8	0	0	3	1	2	5
												M		

QUALITY
24-10-12

CITY AND STATE CHARLESTON, SC	ELEVATION: 46	THRE: 38	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (RNP) Z RWY 33, ORIG-A 27 JUNE 2013	SUP:
	AIRPORT NAME: CHARLESTON AFB/INTL				AMDT: ORIG
					DATED: 07/26/2012

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
	CZSAR	CZSAR	010		IF		FB				AT 03000	
	CZSAR	CITAA	020		TF		FB	1.0			AA 02000	
	CZSAR	DELLL	030		RF	L	FB	1.0		003.5	AA 01000	
	JAARD	JAARD	010		IF		FB				AA 04000	
	JAARD	HOLII	020		TF		FB	1.0			AA 03100	AB 210
	JAARD	CITAA	030		RF	L	FB	1.0		003.5	AA 02000	
	JAARD	DELLL	040		RF	L	FB	1.0		003.5	AA 01000	
	SNOBB	SNOBB	010		IF		FB				AT 03000	
	SNOBB	MKENA	020		TF		FB	1.0			AA 02200	AB 210
	SNOBB	LIVYY	030		RF	R	FB	1.0		003.5	AA 01300	AB 200
	SNOBB	DELLL	040		RF	R	FB	0.5		001.2	AA 01000	
		DELLL	020	FAF	IF		FB				AA 01000	
		RW33	030	MAP	TF		FO	0.3			AT 00089	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	MAMAE	040		TF		FO	1.0			AA 03000	
	MAMAE	050		HM	R	FO		154.3 (147.3T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CFFPV	N324950.84	W0800227.69	N3249.847	W08002.462
	CFFFW	N325221.29	W0795748.55	N3252.355	W07957.809
	CITAA	N324757.57	W0800047.70	N3247.960	W08000.795
	CZSAR	N324622.69	W0800318.25	N3246.378	W08003.304
	DELLL	N325106.89	W0800006.65	N3251.115	W08000.111
	HOLII	N324818.39	W0800434.21	N3248.307	W08004.570
	JAARD	N325034.78	W0800653.98	N3250.580	W08006.900
	LIVYY	N325018.57	W0795904.03	N3250.310	W07959.067
	MAMAE	N330424.09	W0801011.66	N3304.402	W08010.194
	MKENA	N325110.24	W0795528.00	N3251.171	W07955.467
	SNOBB	N325345.10	W0795337.97	N3253.752	W07953.633
	RW33	N325331.84	W0800156.38	N3253.531	W08001.940

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW33	00038	51

CITY AND STATE CHARLESTON, SC	ELEVATION: 46	THRE: 38	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: CHARLESTON AFB/INTL		RNAV	RNAV (RNP) Z RWY 33, ORIG-A	AMDT: ORIG
				27 JUNE 2013	DATED: 07/26/2012