Flight Procedure Tracking Form	Action: AMENDMENT	Task Type: IAP	Date Open: 03/25/2013	Task #: 201301253402210101 1	Request #: 20130125340221
Procedure: RNAV (GPS) RWY 14 AMDT 1B		**Airport ID:** KSTS	**Airport:** CHARLES M. SCHULZ - SONOMA COUNTY		**Reimbursable #:**
City: SANTA ROSA	**ST:** CA	**GPS #:**		**Estimated Chart Date:** 07/25/2013	**FICO #:**
Fac ID:	**Fac. Type:**		**Specialist:** ANDREW FIELDS		

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:				
QA:				4/2/13 FM See Forms. 4/4/13 FM See Forms 4/18/13 FM
Liaison:				

Procedure Comments: ENROUTE-NON

Remark Type: INFORMATION

ATTACHED FORMS 8260-3 8260-9
8260-2 WDSTC, REV 2; EHETY REV 2 (INFO ONLY); PIGPN REV 1 (INFO ONLY); UCEVE, REV 1(INFO ONLY).

CONTACT: LONNIE EVERHART, VIC NASO 405 954 4576/5181

Coding ✓
FIG ✓

APR 18 2013 FMB

ARI SAVED

New

SANTA ROSA, CALIFORNIA

AL-696 (FAA)

FIG

APP CRS		
141°	Rwy Idg	5121
	THRE	115
	Apt Elev	129

RNAV (GPS) RWY 14

SANTA ROSA/CHARLES M. SCHULZ-SONOMA COUNTY (STS)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA. Rwy 14 Straight-in and Circling and Circling to Rwy 19 NA at night.

MISSED APPROACH: Climb to 5000 direct PIGPN and on track 141° to WDSTC and hold, continue climb-in-hold to 5000.

ATIS	OAKLAND CENTER	SANTA ROSA TOWER*	GND CON	UNICOM
120.55	127.8 353.5	118.5 (CTAF) L 363.0	121.9	122.95

Procedure NA at CABEX on V27-494 northwest bound.

Procedure NA at LAPED on V25 northeast bound and V200 eastbound.

LAPED

(IAF) FIPUM

6500

186° (14) (202°T)

3457

2324 ±

(IAF) CABEX

5 NM

4800 NoPT

094° (5.8) (110°T)

321° (337°T)

141° (157°T)

4800 NoPT

186° (5.1) (202°T)

2324

4760

(IF/IAF) LOZWU

3458

4100

141° (3.2) (157°T)

ACUTI

3300

141° (3.6) (157°T)

(FAF) EHETY

MSA RW14 25 NM

6000

2675

1270

1944

1475

4507

4072

2988

UCEVE 4.2 NM to RW14

PROTOTYPE-NOT FOR NAVIGATION

1940

1652

599

886

1145

1154

389 ±

163 RW14

610

203

5100 to LOZWU

321° (16.8) (337°T)

364

139

1388 ±

SANTA ROSA STS

Procedure NA at STS VOR/DME airway radials 309 CW 031.

MISSED APCH FIX

PIGPN

141° (14.4) (157°T)

WDSTC

141° (157°T)

321° (337°T)

5 NM

ELEV 129 D THRE 115

141° to RW14

179 ±

146 ±

0.3% UP

5020 X 100

5121 X 150

TWR 201

270 ±

247 ±

157 ±

5000	PIGPN	tr 141°	WDSTC

*LNAV only.

5 NM Holding Pattern

LOZWU

(337°T)

4800

321°

141°

(157°T)

ACUTI

(157°T)

141°

4100

EHETY

3300

UCEVE 4.2 NM to RW14

RW14

GS 3.00°

TCH 53

3300

*1500

3.2 NM | 3.6 NM | 5.4 NM | 4.2 NM

CATEGORY	A	B	C	D
LNAV/VNAV DA	726-2 611 (600-2)			
LNAV MDA	640-1 525 (600-1)		640-1½ 525 (600-1½)	
C CIRCLING	640-1 511 (600-1)	740-1 611 (700-1)	1080-3 951 (1000-3)	1460-3 1331 (1400-3)

REIL Rwy 14 L

HIRL Rwy 14-32 L

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33

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TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
STS VOR/DME	LOZWU (FO)	321.30 / 16.84	5100
LAPED	FIPUM (FB)	186.41 / 14.00	6500
FIPUM (IAF)	LOZWU (NOPT) (FB)	186.34 / 5.08	4800
CABEX (IAF)	LOZWU (NOPT) (FB)	094.39 / 5.82	4800
LOZWU (IF/IAF)	ACUTI (FB)	140.97 / 3.21	4100
ACUTI	EHETY (FB)	140.98 / 3.62	3300
EHETY (FAF)	UCEVE/4.20 NM TO RW14 (FB)	141.00 / 5.38	
(SEE FORM 8260-10)			

MISSED APPROACH

LNAV/VNAV: DA
LNAV: RW14

CLIMB TO 5000 DIRECT PIGPN AND ON TRACK 141.08 TO WDSTC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD NW LOZWU, RT, 140.97 INBOUND, 4800 FT. IN LIEU OF PT (IAF)
3. FAC: 141.00 FAF: EHETY DIST FAF TO MAP: 9.58 THLD: 9.58
4. MIN. ALT: LOZWU 4800, ACUTI 4100, EHETY 3300, UCEVE/4.20 NM TO RW14 1500*
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 3300 GS ALT AT: EHETY 3300 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 53.0 34:1 IS NOT CLEAR
8. MSA FROM: RW14 6000

ADDITIONAL FLIGHT DATA:

HOLD SE, RT, 321.15 INBOUND.
CHART FAS OBST: 389 TREE 383210N/1225013W
FAS OBST: 859 AAO 383955N/1225337W
DISTANCE TO THLD FROM 611 HATH: 1.71 NM.
CHART CIRCLING ICON.

MAG VAR: 16E EPOCH YEAR: 1985

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
LNAV/VNAV DA	726	2	611	726	2	611	726	2	611	726	2	611			
LNAV MDA	640	1	525	640	1	525	640	1 1/2	525	640	1 1/2	525			
CIRCLING	640	1	511	740	1	611	1080	3	951	1460	3	1331			

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F). @ CAT C 1000-3, CAT D 1400-3
CHART NOTE: DME/DME RNP-0.3 NA.
*LNAV ONLY
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
(SEE FORM 8260-10)

CITY AND STATE	ELEVATION: 129 THRE: 115 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
SANTA ROSA, CA	CHARLES M. SCHULZ - SONOMA COUNTY	RNAV	RNAV (GPS) RWY 14, AMDT 1B	AMDT: 1A
				DATED 01/13/2011

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[ ] YES [X] NO		ROUTINE

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[X]	[ ]	[X]	[ ]	[X]	[X]	[X] ZOA, ARPT MGR

FLIGHT CHECKED BY

NAME:	FIFO	DATE:
ANTHONY ERIC BAMSEY	FIOG	07/20/2010

DEVELOPED BY

NAME:	FIFO	DATE:
A. J. FIELDS	AJV-354	03/27/2013

APPROVED BY

NAME:		FIFO	DATE:
DEBORAH COPELAND	MANAGER	AJV-354	

CHANGES:

1. TERMINAL ROUTES PAGE 3 CHANGED COURSE FROM 141.03 TO 141.00
2. INCREASED ALL MINIMUMS.
FROM:
LNAV/VNAV DA 490 11/4 369 490 1/14 369 490 11/4 369 490 11/4 369
LNAV MDA 560 1 439 560 1 439 560 11/4 439 560 1112 439
CIRCLING 620 1 492 680 1 552 740 1 314 612 740 2 612
TO:
LNAV/VNAV DA 726 2 611 726 2 611 726 2 611 726 2 611
LNAV MDA 640 1 525 640 1 525 640 2 525 640 2 525
CIRCLING 640 1 511 740 1 611 1080 3 951 1460 3 1331
3. CHANGED NOTE FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 49C (120F). TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F).
4. CHANGED HELICOPTER NOTE FROM VISIBILITY REDUCTION BY HELICOPTERS NA TO HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
5. ADDED CIRCLING NOTE, RWY 14 STRAIGHT-IN AND CIRCLING AND CIRCLING TO RWY 19 NA AT NIGHT.
SEE 8260-10

REASONS:

1. TERMINAL PARTIAL IMPLEMENTATION MEMO FOR CHANGE 2 OF 8260.19E DATED 8-27-2012. REQUIRED THE COURSE FROM PFAF THROUGH THE STEPDOWN TO THE MAP REMAIN THE SAME VALUE. CHARTED COURSE NOT AFFECTED.
2 & 7. NEW SURVEY AND APPLICATION OF NEW CIRCLING CRITERIA. (MEMO 188)
3. NEW CALCULATORS TO DETERMINE HIGH AND LOW VALUES. (MEMO 192)
4. NOTE CHANGED.
5. TERMINAL PARTIAL IMPLEMENTATION MEMO FOR CHANGE 2 OF 8260.19E DATED 8-27-2012.
6. RAISED HATH.
8. TERMINAL CRITERIA TAB MEMO DTD 1/10/2013.
9. DESCENT GRADIENT.
PDF EDITS:
TERMINAL ROUTES
1. LINE 7 ADDED (FAF) AFTER EHETY AND REMOVED 1520* FROM ALTITUDE.
2. PAGE 4 OF 4 SEGMENT LINE 4 COLUMN 45-47 ADDED 010, LINE 5 COLUMN 45-47 REMOVED 020.
3. FLIGHT INSPECTION SUMMARY SHEET MISSED APPROACH LINE 4 COLUMN RNP REMOVED 2.0
4. MINIMUMS ADDED STANDARD.

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
UCEVE/4.20 NM TO RW14	RW14 (MAP) (FO)	141.00 / 4.20	
RW14 (MAP)	529 MSL	141.00	
529 MSL	PIGPN (FB)		
PIGPN	WDSTC (FO)	141.08 / 14.35	5000

NOTES, (CONT.):
CHART NOTE: RWY 14 STRAIGHT-IN AND CIRCLING AND CIRCLING TO RWY 19 NA AT NIGHT.
CHART PLANVIEW NOTE: PROCEDURE NA AT LAPED ON V25 NORTHEAST BOUND AND V200 EASTBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA AT STS VOR/DME AIRWAY RADIALS 309 CW 031.
CHART PLANVIEW NOTE: PROCEDURE NA AT CABEX ON V27-494 NORTHWEST BOUND.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 129 THRE: 115 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
SANTA ROSA, CA	CHARLES M. SCHULZ - SONOMA COUNTY	RNAV	RNAV (GPS) RWY 14, AMDT 1B	AMDT: 1A
				DATED: 01/13/2011

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

CHANGES CONT.
6. ADDITIONAL FLIGHT DATA ADDED CHART CIRCLING ICON, CHANGED DISTANCE TO THLD NOTE FROM DISTANCE TO THLD FROM 369 HAT: 1.01 NM. TO DISTANCE TO THLD FROM 611 HATH: 1.71 NM. 7. ALL FINAL AND CIRCLING SEGMENTS AND LNAV 7:1 OBSTACLES CHANGED. 8. SIGNATURE BLOCK FLIGHT INSPECTION CHANGED FROM DANIEL CHARLES FAVORITE TO ANTHONY BAMSEY. 9. LOWERED FINAL SDF FROM 1520 TO 1500.

REASONS:

QUALITY 9 CHECKED

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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ARINC PACKET - 424-18 - RNAV (GPS)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        STS   K2011300VDLW N38302947W122483822    N38302947W122483822E0160001211     NARSANTA ROSA

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ACUTI K20    W     N38430491W122552002                    E0143     NAR           ACUTI
        SUSAEAENRT   CABEX K20    C   L N38480430W123035468                    E0143     NAR           CABEX
        SUSAEAENRT   EHETY K20    W     N38394493W122533166                    E0142     NAR           EHETY
        SUSAEAENRT   FIPUM K20    W     N38504464W122542815                    E0143     NAR           FIPUM
        SUSAEAENRT   LAPED K20    C   L N39034214W122473826                    E0143     NAR           LAPED
        SUSAEAENRT   LOZWU K20    W     N38460234W122565631                    E0143     NAR           LOZWU
        SUSAEAENRT   PIGPN K20    W     N38245599W122453217                    E0142     NAR           PIGPN
        SUSAEAENRT   UCEVE K20    W     N38344732W122505075                    E0142     NAR           UCEVE
        SUSAEAENRT   WDSTC K20    W     N38114186W122382678                    E0141     NAR           WDSTC

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSTSK2ASTS     0     051YHN38303240W122484640E016000129        1800018000C    MNAR    CHARLES M. SCHULZ - SONOMA COU

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSTSK2FR14   ACABEX 010CABEXK2EA0E  A    IF                                                18000                A JS
        SUSAP KSTSK2FR14   ACABEX 020LOZWUK2EA0EE B 010TF                    09440058    + 04800                                A JS
        SUSAP KSTSK2FR14   ALAPED 010LAPEDK2EA0E       IF                                                18000                A JS
        SUSAP KSTSK2FR14   ALAPED 020FIPUMK2EA0E  A 020TF                    18640140    + 06500                                A JS
        SUSAP KSTSK2FR14   ALAPED 030LOZWUK2EA0EE B 010TF                    18630051    + 04800                                A JS
        SUSAP KSTSK2FR14   ASTS   010STS  K2D 0V       IF                                                18000                A JS
        SUSAP KSTSK2FR14   ASTS   020LOZWUK2EA0EY   020TF                    32130168    + 05100                                A JS
        SUSAP KSTSK2FR14   ASTS   030LOZWUK2EA0EE AR   HF                    14100050    + 04800                                A JS
        SUSAP KSTSK2FR14   R      010LOZWUK2EA0E  I    IF                                + 04800     18000                      A JS
        SUSAP KSTSK2FR14   R      011ACUTIK2EA0E S  051TF                    14100032    + 04100                                A JS
        SUSAP KSTSK2FR14   R      020EHETYK2EA1E  F 051TF                    14100036    + 03300                    RW14  K2PGA JS
        SUSAP KSTSK2FR14   R      020EHETYK2EA2WN          ALNAV/VNAV ALNAV                                                        JS
        SUSAP KSTSK2FR14   R      021UCEVEK2EA0E S  031TF                    14100054    V 0150001505        -300              A JS
        SUSAP KSTSK2FR14   R      030RW14 K2PG0GY M 031TF                    14100042      00168             -300              A JS
        SUSAP KSTSK2FR14   R      040          0  M     CA                    1410        + 00529                                A JS
        SUSAP KSTSK2FR14   R      050PIGPNK2EA0E       DF                                                                      A JS
        SUSAP KSTSK2FR14   R      060WDSTCK2EA0EY   010TF                    1411        + 05000                                A JS
        SUSAP KSTSK2FR14   R      070WDSTCK2EA0EE  R   HM                    32120050    + 05000                                A JS
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 129 THRE: 115	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
SANTA ROSA, CA	AIRPORT NAME: **CHARLES M. SCHULZ - SONOMA COUNTY**	**RNAV**	**RNAV (GPS) RWY 14, AMDT 1B**	AMDT: **1A**
				DATED: **01/13/2011**

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER ☐ (specify) _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

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```
            1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
            ------------------------------------------------------------------------------------------------------------------------
            SUSAP KSTSK2GRW14     0051211412 N38305505W122484544+0100     +00036001150000531 50R

            1         2         3         4         5         6         7         8         9         0         1         2         3
MSA         12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
            ------------------------------------------------------------------------------------------------------------------------
            SUSAP KSTSK2SRW14 K2PG               0    18018006025                                                          M
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 129 THRE: 115	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
SANTA ROSA, CA	AIRPORT NAME: CHARLES M. SCHULZ - SONOMA COUNTY	RNAV	RNAV (GPS) RWY 14, AMDT 1B	AMDT: 1A
				DATED: 01/13/2011

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER ☐ (specify) _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

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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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	CABEX	CABEX	010	IAF	IF		FB					
	CABEX	LOZWU	020		TF		FB	1.0	094.4(110.4T)	005.8	AA 04800	
	LAPED	LAPED	010		IF		FB					
	LAPED	FIPUM	020	IAF	TF		FB	2.0	186.4(202.4T)	014.0	AA 06500	
	LAPED	LOZWU	030		TF		FB	1.0	186.3(202.3T)	005.1	AA 04800	
	STS	STS	010		IF		FB					
	STS	LOZWU	020		TF		FO	2.0	321.3(337.3T)	016.8	AA 05100	
	STS	LOZWU	030	IAF	HF	R	FO		141.0(157.0T)	005.0	AA 04800	
		LOZWU	010	FACF	IF		FB				AA 04800	
		ACUTI	011	SDF	TF		FB	0.5	141.0(157.0T)	003.2	AA 04100	
		EHETY	020	FAF	TF		FB	0.5	141.0(157.0T)	003.6	AA 03300	
		UCEVE	021	SDF	TF		FB	0.3	141.0(157.0T)	005.4	AA 01500	GS 01505
		RW14	030	MAP	TF		FO	0.3	141.0(157.0T)	004.2	AT 00168	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		141.0(157.0T)		AA 00529	
	PIGPN	050		DF		FB					
	WDSTC	060		TF		FO	1.0	141.1(157.1T)		AA 05000	
	WDSTC	070		HM	R	FO		321.2(337.2T)	005.0	AA 05000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	STS	N383029.47	W1224838.22	N3830.491	W12248.637
	ACUTI	N384304.91	W1225520.02	N3843.082	W12255.334
	CABEX	N384804.30	W1230354.68	N3848.072	W12303.911
	EHETY	N383944.93	W1225331.66	N3839.749	W12253.528
	FIPUM	N385044.64	W1225428.15	N3850.744	W12254.469
	LAPED	N390342.14	W1224738.26	N3903.702	W12247.638
	LOZWU	N384602.34	W1225656.31	N3846.039	W12256.939
	PIGPN	N382455.99	W1224532.17	N3824.933	W12245.536
	UCEVE	N383447.32	W1225050.75	N3834.789	W12250.846
	WDSTC	N381141.86	W1223826.78	N3811.698	W12238.446
	RW14	N383055.05	W1224845.44	N3830.918	W12248.757

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW14	00115	53

QUALITY CHECKED

CITY AND STATE	ELEVATION: 129	THRE: 115	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
SANTA ROSA, CA	AIRPORT NAME: **CHARLES M. SCHULZ - SONOMA COUNTY**		**RNAV**	**RNAV (GPS) RWY 14, AMDT 1B**	AMDT: **1A**
					DATED: **01/13/2011**

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FEEDER	STS VOR/DME	LOZWU	1. AAO	384552.96N/1225043.08W	3658 (2A)	2000	SA-607	5100
			2. TERRAIN	384648.00N/1225157.00W	2619 (2600)		AS1500	4100
FEEDER	LAPED	FIPUM	3. AAO	385844.20N/1224611.40W	4500 (6A)	2000		6500
			4. TERRAIN	385844.20N/1224611.40W	4300 (4300)		AS1500	5800
INITIAL	FIPUM	LOZWU	5. AAO	385121.00N/1225300.00W	3353 (4E)	1000	PR71 AT376	4800
			6. TERRAIN	385121.00N/1225715.00W	2999 (3000)		AS1500	4500
INITIAL	CABEX	LOZWU	7. AAO	384751.00N/1225715.00W	2179 (4E)	1000	PR138 AT1483	4800
			8. TERRAIN	384751.00N/1225715.00W	1979 (2000)		AS1500	3500
INTERMEDIATE	LOZWU (IF/IAF)	ACUTI	1. AAO	384552.96N/1225043.08W	3658 (2A)	500	SA-268 PR112	4100
			2. TERRAIN	384648.00N/1225157.00W	2619 (2600)		AS1000	3600
INTERMEDIATE:	ACUTI	EHETY	9. AAO	384432.93N/1225142.72W	2294 (2A)	500	SA-48 AT442 PR112	3300
STEPDOWN			10. TERRAIN	384033.00N/1225403.00W	844 (800)		AS1500	2300
FINAL: LNAV/VNAV	EHETY	RW14	11. TREE	383209.50N/1225012.99W	389 (2C)	22.81:1	AC20	726/611
2. HOLD-IN-LIEU-OF-PT	LOZWU	P-5	12. AAO	385439.00N/1225721.00W	3521 (4E)	1000	PR201	4800
			13. TERRAIN	385439.00N/1225721.00W	3321 (3300)		AS1000	4300
3. MISSED APPROACH MAP:	DA / RW14	WDSTC				ASC		5000
			19. AAO	382328.67N/1224039.51W	1339 (2C)	1000		2400
ELEV:	565/540		20. TERRAIN	381139.00N/1223833.00W	660 (700)		AS1500	2200

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
CATEGORY A	1.3 NM	350	511	15. TREE (KSTST0004)	383003.82N/1224936.18W	317 (2C)	300	SI	640
CATEGORY B	1.5 NM	450	611	16. TREE	382911.77N/1225059.02W	435 (2C)	300		740
CATEGORY C	1.7 NM	450	951	17. TREE	383125.83N/1224510.16W	777 (1B)	300		1080
CATEGORY D	2.3 NM	550	1331	18. AAO	383247.99N/1224436.80W	1149 (2C)	300		1460
CATEGORY E	4.5 NM	550							

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW14

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	AAO	356/ 18.0	4960 (6A)	6000					

QUALITY CHECKED

CITY AND STATE	ELEVATION: 129 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
SANTA ROSA, CA	CHARLES M. SCHULZ - SONOMA COUNTY	RNAV	RNAV (GPS) RWY 14, AMDT 1B	AWP

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
ZOA ARTCC STS TOWER SATISFACTORY ON:	[ ] NWS OTHER: ASOS [ ] FAA [ ] A/C	SOURCE: KSTS / KO69 DISTANCE: 0 / 17.96 HOURS REMOTE OPERATION:
[X] VHF [X] UHF [ ] HF	LOCATION: KSTS	ADJUSTMENT: 0 / 0

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN:	CAT 1
		CAT 3

5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
	X	MALSR 32 (PCL)
	X	HIRL 14 (PCL), 32 (PCL)
		MIRL
	X	REIL 14 (PCL)
		TDZ
		C/LINE
	X	OTHER (SPECIFY) VASI-4R 14 (PCL) PAPI-4R 19

6. RUNWAY MARKINGS	BASIC	BSC-G 01, 19
	ALL WEATHER	PIR-G 14, 32
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	32
	MIDFIELD	
	ROLL OUT	

8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 114.0
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 53.0

9. FINAL APPROACH COURSE AIMING	X	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: A. J. FIELDS	DATE: 03/27/2013
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-354

PART C - REMARKS:

VDP NOT ESTABLISHED - 20:1 PENTRATIONS.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

2. HRS OPTN: 24
VGSI DATA: 3.00/52.
KSTS ASOS ON SERVICE-A
ORDER 8260.3, VOLUME 1 CHAPTER 2, NEW CIRCLING CRITERIA APPLIED
CAT A: 1.30NM
CAT B: 1.81NM
CAT C: 2.84NM
CAT D: 3.74NM
TERPS 289 APPLIED TO 859 AAO 383955N/1225337W.

NO ADDITIONAL AIRSPACE REQUIRED.

TAA NOT DEVELOPED PER ATC.
BACKUP ALTIMETER: NOT DEVELOPED - SUITABLE BACKUP ALTIMETER SOURCE NOT AVAILABLE PER FPO CHECKLIST.
PENETRATIONS REPORTED TO FPT ON ORIGINAL PROCEDURE:
34:1 PENETRATIONS:
KSTST0071 TREE 383103.21N-1224845.02W 17.92FT
KSTST0070 TREE 383103.43N-1224845.47W 14.90FT
KSTS0016 TREE 383103.47N-1224846.02W 9.29FT
KSTST0066 TREE 383105.44N-1224848.59W 14.56FT
KSTST0065 TREE 383105.34N-1224848.99W 14.47FT
KSTST0049 TREE 383103.51N-1224856.79W 14.37FT
KSTST0058 TREE 383106.30N-1224852.29W 14.83FT
KSTST0050 TREE 383104.01N-1224856.23W 11.51FT
KSTST0072 TREE 383105.41N-1224844.86W 6.04FT
KSTST0053 TREE 383102.81N-1224855.83W 4.16FT
KSTST0057 TREE 383101.27N-1224854.00W 0.05FT
KSTS0017 TREE 383105.47N-1224849.81W 5.36FT
KSTST0055 TREE 383105.26N-1224855.22W 7.01FT
KSTST0045 TREE 383104.84N-1224857.86W 7.75FT
KSTST0051 TREE 383102.47N-1224856.05W 1.89FT
KSTST0069 TREE 383109.22N-1224846.04W 7.53FT
KSTST0061 TREE 383105.62N-1224850.45W 2.37FT
KSTST0056 TREE 383105.62N-1224854.10W 3.04FT
KSTST0048 TREE 383104.95N-1224856.92W 1.31FT
KSTST0044 TREE 383105.33N-1224858.31W 2.00FT
KSTST0041 TREE 383114.59N-1224901.60W 18.64FT
KSTS0019 TREE 383112.17N-1224850.87W 6.05FT
KSTST0067 TREE 383112.36N-1224848.47W 2.71FT
KSTST0038 TREE 383115.03N-1224903.34W 10.85FT
KSTST0040 TREE 383115.50N-1224902.60W 7.24FT
KSTS0020 TREE 383115.02N-1224903.31W 4.91FT
KSTST0039 TREE 383115.37N-1224903.11W 2.13FT
20:1 PENETRATIONS:
KSTST0071 TREE 383103.21N-1224845.02W 6.66FT
KSTST0070 TREE 383103.43N-1224845.47W 2.94FT
R19 20:1 PENETRATIONS:
KSTST0080 TREE 383103.10N-1224840.60W 1.45FT
FPO NOTIFIED OF 20:1 AND 34:1 PENETRATIONS VIA EMAIL ON 08/27/2008 AND 01/07/2010.
NEW PENETRATIONS FOUND DURING ABREVIATED AMDT 1B ORDER 8260.3, VOLUME 1 VISUAL PORTION OF FINAL
PENETRATIONS:
RWY 14 20:1
150 TREE KSTST000441 383103.45 N/1224845.48W (6.19)
156 TREE KSTST000456 383105.45N/1224844.67W (4.11)
RWY 14 34:1
TREE KSTST000662 383130.00N/1224903.00 W 28.67 FT

53' TCH UTILIZED TO ELIMINATE GQS PENETRATIONS
CONT.

QUALITY 9 CHECKED

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FINAL: LNAV	EHETY	UCEVE/4.20 NM TO	14. AAO	383754.01N/1225145.00W	599 (2C)	250	AT472 XL179	1500
		RW14						
FINAL: LNAV STEPDOWN	UCEVE/4.20 NM TO	RW14	11. TREE	383209.50N/1225012.99W	389 (2C)	250		640
	RW14							

3. MISSED APPROACH	
MAP:	
ELEV:	

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.		
CATEGORY A	1.3 NM	REQUIRED 350	ACTUAL	
CATEGORY B	1.5 NM	450		
CATEGORY C	1.7 NM	450		
CATEGORY D	2.3 NM	550		
CATEGORY E	4.5 NM	550		

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID:

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A

QUALITY CHECKED

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
SANTA ROSA, CA	ELEVATION: 129 AIRPORT NAME: CHARLES M. SCHULZ - SONOMA COUNTY	RNAV	RNAV (GPS) RWY 14, AMDT 1B	AWP

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
SATISFACTORY ON:	☐ N W S OTHER:	SOURCE:
	☐ F A A	DISTANCE:
	☐ A / C	HOURS REMOTE OPERATION:
☐ V H F ☐ U H F ☐ H F	LOCATION:	ADJUSTMENT:

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN: CAT 1	
	CAT 3	

5. APPROACH & RUNWAY LIGHTING	
☐	**ALS**
☐	**(S) SALS**
☐	**MALS**
☐	**HIRL**
☐	**MIRL**
☐	**REIL**
☐	**TDZ**
☐	**C/LINE**
☐	**OTHER (SPECIFY)**

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:

9. FINAL APPROACH COURSE AIMING			
	☐	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	☐	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS:

PART D - PREPARED BY:	DATE:
TITLE:	OFFICE:

PART C - REMARKS:

CONTINUED.
KSTST0066 154 TREE 383105.44N-1224848.59W 2.81
KSTST0065 154 TREE 383105.34N-1224848.99W 2.70
KSTST0058 160 TREE 383106.30N-1224852.29W 2.01

VNAV SLOPE 22.81:1
CRITICAL TEMPERATURES
CRITICAL LOW -15C (5F)
CRITICAL HIGH 49C (121F)
ACT -15C
APT ISA -15C
DELTA ISA LOW -37.18
CRITICAL LOW TEMPERATURE BASED ON ACT
DESCENT RATE: STANDARD TEMP 981 HIGH TEMP 1115
FROM AFS 400 CALCULATOR

QUALITY CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: EHETY **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 383944.93N/1225331.66W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 14			KSTS	SANTA ROSA	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 09/23/2010

REASON FOR REVISION:
1. FIX MOVED FROM 6.5 NM TO 9.58 NM
2. DELETED FAC 1
3. UPDATED FIX USE

DEVELOPED BY: **DATE:** 01/04/2010 **OFFICE:** AVN-130 **NAME:** FRED BALLARD

APPROVED BY: **DATE:** 07/29/2010 **OFFICE:** AVN-130 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZOA
ATC FACILITY: STS ATCT
OTHER:

QUALITY CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: PIGPN **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 382455.99N/1224532.17W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
RNP CRITERIA APPLIED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 14			KSTS	SANTA ROSA	CA (US)
IAP	RNAV (GPS) RWY 32			KSTS	SANTA ROSA	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/23/2010

REASON FOR REVISION:
1. DELETED FIX 1
2. UPDATED FIX USE

DEVELOPED BY: **DATE:** 01/05/2010 **OFFICE:** AVN-130 **NAME:** FRED BALLARD

APPROVED BY: **DATE:** 07/29/2010 **OFFICE:** AVN-130 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZOA
ATC FACILITY: STS ATCT
OTHER:

QUALITY CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: UCEVE **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 383447.32N/1225050.75W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 14			KSTS	SANTA ROSA	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/23/2010

REASON FOR REVISION:
1. FIX MOVED FROM 3.5 NM TO 4.2 NM TO RWY 14
2. REMOVED FAC 1
3. UPDATED FIX USE

DEVELOPED BY: **DATE:** 01/04/2010 **OFFICE:** AVN-130 **NAME:** FRED BALLARD

APPROVED BY: **DATE:** 07/29/2010 **OFFICE:** AVN-130 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZOA
ATC FACILITY: STS ATCT
OTHER:

QUALITY 9 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WDSTC **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 381141.86N/1223826.78W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SE		WP	141.15	321.15	R		5	5000	10000	6	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	380440.10N/1223714.50W	2120	6A
1	310	AAO	375530.60N/1223602.10W	2800	6A

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	200	120

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RNAV (GPS) RWY 14	KSTS	SANTA ROSA	CA (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED 120 FOOT ADJUSTMENT WAS FOUND AT THE MAX HOLD ALTITUDE AND HAS NO AFFECT ON THE MINIMUM HOLDING ALTITUDE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 14		1	KSTS	SANTA ROSA	CA (US)
IAP	RNAV (GPS) RWY 32			KSTS	SANTA ROSA	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 07/25/2013

REASON FOR REVISION:
ADD PRECIPITOUS TERRAIN ADJUSTMENT.

DEVELOPED BY: **DATE:** 03/22/2013 **OFFICE:** AJV-354 **NAME:** ANDREW FIELDS

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEBORAH COPELAND

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZOA
ATC FACILITY: STS ATCT
OTHER: