Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 06/20/2012	Task #: 2011113026190401042	Request #: 20111130261904
Procedure: VOR RWY 32 AMDT 20		Airport ID: KSTS	Airport: CHARLES M. SCHULZ - SONOMA COUNTY		Reimbursable #:
City: SANTA ROSA	ST: CA	GPS #:		Estimated Chart Date: 11/15/2012	FICO #:
Fac ID: STS	Fac. Type: PROC-A	Specialist: JEFF RAWDON(Contractor)			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	04/23/2012	08/22/2012	STEVEN SZUKALA	
QA:	08/22/2012	08/22/2012	STEVEN SZUKALA	
Liaison:	08/22/2012		Sperlin	P1

P1

Procedure Comments:

Remark Type: INFORMATION

Pkg. 386

SANTA ROSA, CA CHARLES M SCHULZ - SONOMA COUNTY (STS) VOR RWY 32, AMDT 20 ENROUTE-NO FC: 10.2.12 PUB: 11.15.12

FORMS: 8260-5; 8260-10; 8260-9; 8260-2(S): BURDE, CA-REV 8 (INFO); COATI, CA-REV 3; HOMOX, CA-ORIG; MONES OM, CA-REV 4; POINT REYES VTAC, CA-REV 13; SANTA ROSA VDME, CA-REV 5 (INFO); SAUSALITO VTAC, CA-REV 6 (INFO); SCAGGS ISLAND VTAC, CA-REV 18 (INFO); VUCDU, CA-ORIG.

CONTACT: ADOLFO URRUTIA/LONNIE EVERHART-AVN-130 LEADS, 405.954.2079/405.954.4576.

VOR RWY 32

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

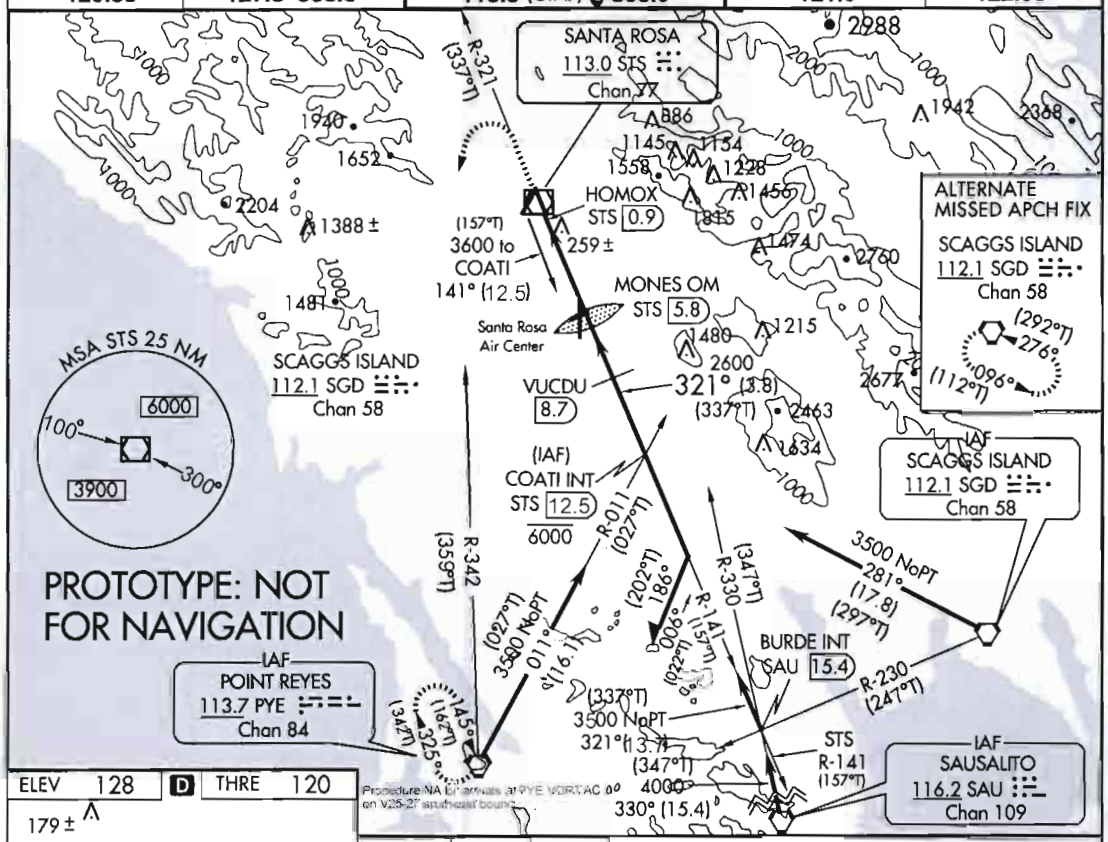
VOR/DME STS	APP CRS	Rwy Idg	5119
113.0	321°	THRE	120
Chan 77		Apt Elev	128

DME required. VDP NA with Petaluma altimeter setting. When local altimeter setting not received, use Petaluma altimeter setting and increase all MDA 60 ft. Increase S-32 Cats C and D visibility to RVR 5500. For inoperative MALSR, when using Petaluma altimeter setting, increase S-32 Cats C and D visibility to 1 1/2 miles.

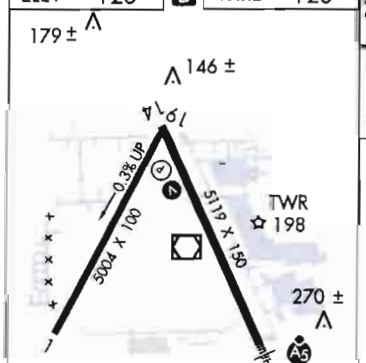
MALSR

MISSED APPROACH: Climbing left turn to 4000 heading 180° and PYE VORTAC R-342 toPYE VORTAC and hold, or as directed by ATC.

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



ELEV 128 D THRE 120



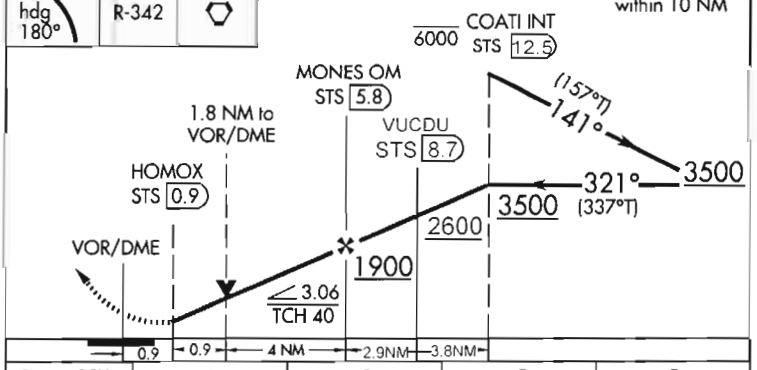
REIL Rwy 14 L
HIRL Rwy 14-32 L

4000 hdg 180°

PYE R-342

PYE

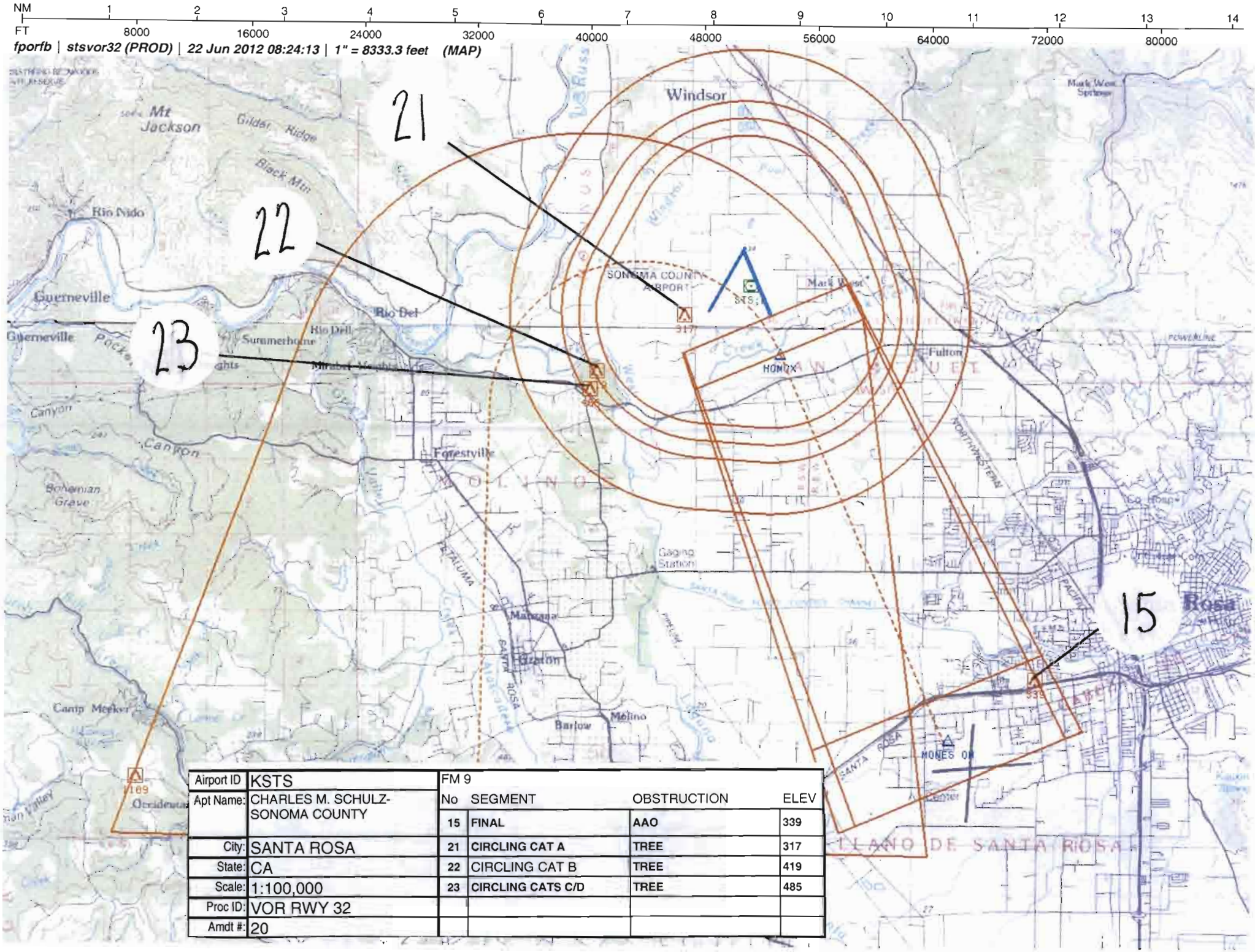
Remain within 10 NM



CATEGORY	A	B	C	D
S-32	600/24	480 (500-½)	600/50	480 (500-1)
CIRCLING	620-1 492 (500-1)	720-1 592 (600-1)	800-2 672 (700-2)	800-2¼ 672 (700-2¼)

SANTA ROSA/ CHARLES M. SCHULZ-SONOMA COUNTY (STS)
VOR RWY 32

38°31'N-122°49'W



Airport ID	KSTS
Apt Name:	CHARLES M. SCHULZ-SONOMA COUNTY
City:	SANTA ROSA
State:	CA
Scale:	1:100,000
Proc ID:	VOR RWY 32
Amdt #:	20

FM 9

No	SEGMENT	OBSTRUCTION	ELEV
15	FINAL	AAO	339
21	CIRCLING CAT A	TREE	317
22	CIRCLING CAT B	TREE	419
23	CIRCLING CATS C/D	TREE	485

NM 7 14 21 28 35 42 49

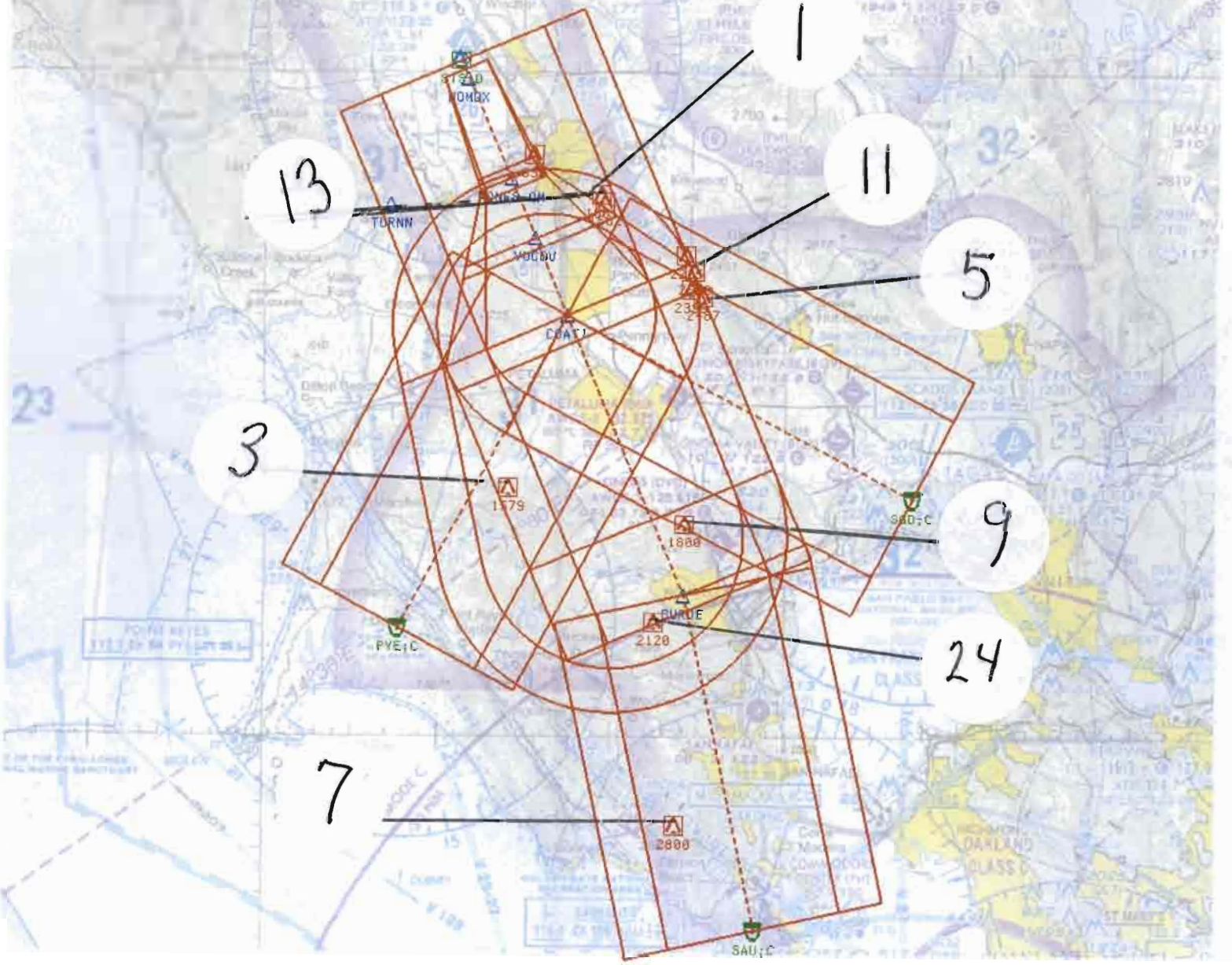
FT 42000 84000 126000 168000 210000 252000 294000

fporfb | stsvor32 (PROD) | 30 Jul 2012 15:09:18 | 1" = 41666.7 feet (MAP)

Airport ID:	KSTS
Apt Name:	CHARLES M. SCHULZ-SONOMA COUNTY
City	SANTA ROSA
State:	CA
SCALE	1:500,000
Proc ID:	VOR RWY 32
AMDT#	20

FM 9

No	SEGMENT	OBSTRUCTION	ELEV
1	STS FEEDER	AAO	1601
3	PYE INITIAL	AAO	1579
5	SGD INITIAL	AAO	2487
7	SAU INITIAL	AAO	2800
9	INITIAL STEPDOWN	AAO	1800
11	INTERMEDIATE	AAO	2500
13	INTERMEDIATE STEPDOWN	AAO	1582
24	PROCEDURE TURN	AAO	2120



NM 7 14 21 28 35 42 49

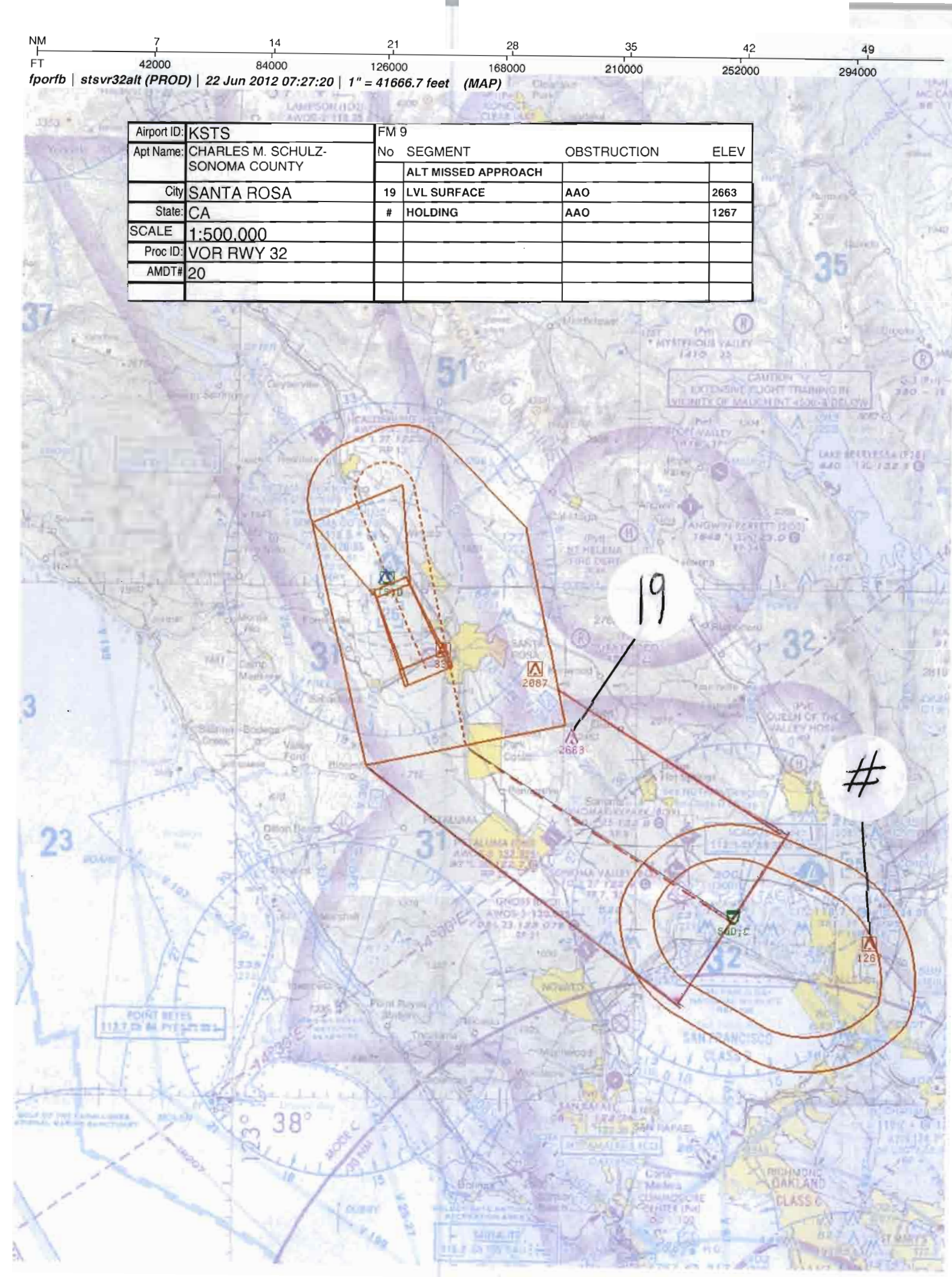
FT 42000 84000 126000 168000 210000 252000 294000

fporfb | stsvr32ma (PROD) | 30 Jul 2012 14:08:00 | 1" = 41666.7 feet (MAP)

Airport ID:	KSTS
Apt Name:	CHARLES M. SCHULZ-SONOMA COUNTY
City	SANTA ROSA
State:	CA
SCALE	1:500,000
Proc ID:	VOR RWY 32
AMDT#	20

FM 9

No	SEGMENT	OBSTRUCTION	ELEV
	MISSED APPROACH		
17	**LVL SURFACE**	**AAO**	1537
#	**HOLDING**	**AAO**	1670


NM 7 14 21 28 35 42 49
FT 42000 84000 126000 168000 210000 252000 294000
fporfb | stsvr32alt (PROD) | 22 Jun 2012 07:27:20 | 1" = 41666.7 feet (MAP)
Airport ID: KSTS
Apt Name: CHARLES M. SCHULZ-SONOMA COUNTY
City: SANTA ROSA
State: CA
SCALE 1:500,000
Proc ID: VOR RWY 32
AMDT# 20
FM 9
No SEGMENT OBSTRUCTION ELEV
ALT MISSED APPROACH
19 LVL SURFACE AAO 2663
HOLDING AAO 1267
19
#
2663
2087
126

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

VOR STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23

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

FROM	TO	COURSE AND DISTANCE	ALTITUDE
STS VOR/DME	COATI INT/STS 12.50 DME	140.89 / 12.50	3500
PYE VORTAC (IAF)	COATI INT/STS 12.50 DME (NOPT)	011.23 / 16.10	3500
SGD VORTAC (IAF)	COATI INT/STS 12.50 DME (NOPT)	280.62 / 17.77	3500
SAU VORTAC (IAF)	BURDE INT/STS 26.23 DME (NOPT)	330.47 / 15.35	4000
BURDE INT/STS 26.23 DME	COATI INT/STS 12.50 DME	320.89 / 13.73 (STS R-141)	3500
COATI INT/STS 12.50 DME (IF/IAF)	VUCDU/STS 8.70 DME	320.89 / 3.80 (STS R-141)	2600
VUCDU/STS 8.70 DME	MONES OM/STS 5.76 DME	320.89 / 2.94 (STS R-141)	1900

MISSED APPROACH

MAP: 4.90 MILES AFTER MONES OM/STS 5.76 DME OR AT HOMOX/ 0.86 DME FIX

CLIMBING LEFT TURN TO 4000 HEADING 180 AND PYE VORTAC R -342 TO PYE VORTAC AND HOLD, OR AS DIRECTED BY ATC.

ALTERNATE MA: CLIMB TO 1700 ON STS VOR/DME R-321 THEN CLIMBING RIGHT TURN TO 4700 ON HEADING 185 AND SGD VORTAC R-319 TO SGD VORTAC AND HOLD.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 144.98 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E SGD VORTAC, LT, 275.93 INBOUND.
FAS OBST: 339 AAO 382551N/1224424W
CHART VDP AT 1.76 DME;
DISTANCE VDP TO THLD 1.35 MILES.
CHART IN PLANVIEW: SGD VORTAC.
MONES OM TO RW32: 3.06/40.
CHART SANTA ROSA AIR CENTER (ABANDONED).
CHART MAX 6000 AT COATI.
FAC 426L OF RWY C/L EXTENDED 3000 FROM THLD.

1. PT R SIDE OF COURSE 140.89 OUTBOUND 3500 FT WITHIN 10 MILES OF COATI (IAF)
2.
3. FAC 320.89 FAF MONES OM/STS 5.76 DME DIST FAF TO MAP 4.90 THLD 5.35
4. MIN. ALT COATI 3500, VUCDU 2600, MONES OM 1900
8. MSA FROM: STS VOR/DME 120-280 3900, 280-120 6000

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		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
S-32	600	2400	480	600	2400	480	600	5000	480	600	5000	480			
CIRCLING	620	1	492	720	1	592	800	2	672	800	2 1/4	672			

NOTES:

CHART NOTE: DME REQUIRED.
CHART NOTE: VDP NA WITH PETALUMA ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PETALUMA ALTIMETER SETTING AND INCREASE ALL MDA 60 FT. INCREASE S-32 CATS C AND D VISIBILITY TO RVR 5500.
(SEE FORM 8260-10)

@ CAT D 800-2 1/4
@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 128 THRE: 120 / AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP
SANTA ROSA, CA	CHARLES M. SCHULZ - SONOMA COUNTY	STS	VOR RWY 32, AMDT 20	AMDT 19
				DATE 03/15/2007

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; STS ATCT, ARPT MGR**

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME:	FIFO	DATE:
ADOLFO URRUTIA (ROSS F. BARTO)	**AJV-354**	**06/25/2012**

APPROVED BY		
NAME:	FIFO	DATE:
DEZ SILAGYI MANAGER	**AJV-354**	

CHANGES:

1. MINIMUMS BASED ON HEIGHT ABOVE THLD VS TOUCHDOWN.
2. ADDED DME REQUIRED.
3. ADDED INTERMEDIATE STEPDOWN FIX.
4. LOWERED FEEDER MINIMUM ALTITUDE FROM 3600 TO 300.
5. RAISED PYE VORTAC INITIAL MINIMUM ALTITUDE FROM 3000 TO 3500.
6. RAISED PROCEDURE TURN MINIMUM ALTITUDE FROM 3000 TO 3500.
7. LOWERED SGD VORTAC INITIAL FROM 3600 TO 3500.
8. RAISED CIRCLING MDA/HAA; CAT A FROM 580/455 TO 620/492, CAT B FROM 680/555 TO 720/592, CATS C AND D FROM 740/615 TO 800/672.
9. RAISED MSA MINIMUM ALTITUDES; 120-280 FROM 3600 TO 3900 AND 280-120 FROM 5900 TO 6000.
10. REVISED PRIMARY AND ALTERNATE MISSED APPROACH.
11. MINIMUMS CHANGED FROM 2 LINES TO 1 LINE.
12. FINAL COURSE CHANGED FROM 321.00 TO 320.89.
13. MOVED MAP TO 0.86 DME FROM STS VOR/DME AND NAMED HOMOX.
14. ADDED ALTERNATE MINIMUMS.
SEE 8260-10

REASONS:

1. PER 8260.3, CH 20.
2. INTERMEDIATE STEPDOWN FIX REQUIRES DME.
3. REQUIRED FOR DESCENT GRADIENT.
4. NEW CONTROLLING OBSTACLE.
5/6/7. COMMON ALTITUDE AT IF/IAF COATI.
8/9. NEW CONTROLLING OBSTACLES.
10/13. OBSTACLE AND TERRAIN AVOIDANCE.
11. DME IS REQUIRED.
12. REQUIRED TO ALIGN FINAL WITH BURDE INT.
14. AUTHORIZED.
15/16. REQUIRED.
17. TO USE SMALL PATTERN DUE TO AIRSPACE.
18-22. COATI MOVED.
23. IAW 8260.19D PARA 805G.

QUALITY 2 CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

VOR STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - - TITLE 14 CFR PART 97.23

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 aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):
CHART NOTE: FOR INOPERATIVE MALSR, WHEN USING PETALUMA ALTIMETER SETTING, INCREASE S-32 CATS C AND D VISIBILITY TO 1 1/2 MILES.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT PYE VORTAC ON V25-27 SOUTHWEST BOUND.

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 128 THRE: 120 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
SANTA ROSA, CA	CHARLES M. SCHULZ - SONOMA COUNTY	STS	VOR RWY 32, AMDT 20	AMDT: 19
				DATED: 03/15/2007

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

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.
15. ADDED BACK-UP ALTIMETER AND REQUIRED NOTES. 16. ADDED VPD AND VDA. 17. ADDED CHART MAXIMUM 6000 AT COATI. 18. STS FEEDER SEGMENT COURSE/DISTANCE CHANGED FROM 141.00/11.30 TO 140.89/12.50. 19. PYE INITIAL SEGMENT COURSE/DISTANCE CHANGED FROM 008.00/16.90 TO 011.23/16.10. 20. SGD INITIAL SEGMENT COURSE/DISTANCE CHANGED FROM 283.00/18.70 TO 280.62/17.77. 21. SAU INITIAL SEGMENT COURSE/DISTANCE CHANGED FROM 330.00/15.30 TO 330.47/15.35. 22. BURDE INITIAL STEPDOWN SEGMENT COURSE/DISTANCE CHANGED FROM 321.00/15.00 TO 320.89/13.73. 23. ADDED PLANVIEW NOTE RESTRICTING ARRIVALS AT PYE VORTAC.

REASONS:

QUALITY 2 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.
FEEDER	STS VOR/DME	COATI INT/STS	1. AAO	382403.00N/1224027.00W	1601 (4E)	2000	MT-101	3500
		12.50 DME	2. TERRAIN	382403.00N/1224027.00W	1401 (1400)		AS1500	2900
INITIAL	PYE VORTAC	COATI INT/STS	3. AAO	381047.70N/1224541.20W	1579 (6A)	1000	AT921	3500
		12.50 DME	4. TERRAIN	381047.70N/1224541.20W	1379 (1400)		AS1500	2900
INITIAL	SGD VORTAC	COATI INT/STS	5. AAO	381924.00N/1223430.00W	2487 (4E)	1000		3500
		12.50 DME	6. TERRAIN	381924.00N/1223430.00W	2287 (2300)		AS1000	3300
INITIAL	SAU VORTAC	BURDE INT/STS	7. AAO	375530.60N/1223602.10W	2800 (6A)	1000	AT200	4000
		26.23 DME	8. TERRAIN	375530.60N/1223602.10W	2600 (2600)		AS1000	3600
INITIAL: STEPDOWN	BURDE INT/STS	COATI INT/STS	9. AAO	380908.10N/1223529.60W	1800 (6A)	1000	AT700	3500
	26.23 DME	12.50 DME	10. TERRAIN	380908.10N/1223529.60W	1600 (1600)		AS1500	3100
INTERMEDIATE	COATI INT/STS	VUCDU/STS 8.70	11. AAO	382036.00N/1223500.00W	2500 (2C)	500	SA-496	2600
	12.50 DME	DME	12. TERRAIN	382039.00N/1223754.00W	801 (800)		AS1500	2300
	(IF/IAF)							
INTERMEDIATE:	VUCDU/STS 8.70	MONES OM/STS	13. AAO	382342.00N/1224018.00W	1582 (2C)	500	SA-420 DG238	1900
STEPDOWN	DME	5.76 DME	14. TERRAIN	382327.00N/1224124.00W	237 (200)		AS1500	1700
2. PROCEDURE TURN	COATI	10 NM	24. AAO	380440.10N/1223714.50W	2120 (6A)	1000	AT380	3500
			16. TERRAIN	380440.10N/1223714.50W	1920 (1900)		AS1000	2900
3. MISSED APPROACH MAP:	4.90 MILES AFTER	POINT REYES				ASC		4000
	MONES OM/STS	VORTAC	17. AAO	381047.70N/1224541.20W	1579 (4A)	1000		2600
ELEV:	350		18. TERRAIN	381047.70N/1224541.20W	1379 (1400)		AS1500	2900

4. CIRCLING AREA	DISTANCE		HT. ABV. ARPT.							
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL	492	21. TREE (KSTST0004)	383003.82N/1224936.18W	317 (2C)	300	620
CATEGORY B	1.5 NM		450		592	22. TREE	382924.67N/1225053.42W	419 (2C)	300	720
CATEGORY C	1.7 NM		450		672	23. TREE	382911.77N/1225059.02W	485 (2C)	300	800
CATEGORY D	2.3 NM		550		672	23. TREE	382911.77N/1225059.02W	485 (2C)	300	800
CATEGORY E	4.5 NM		550							

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: STS VOR/DME

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
120-280	AAO	292/ 19.9	2874 (4E)	3900					2
280-120	AAO	355/ 18.4	4960 (6A)	6000					CHECKED

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
SANTA ROSA, CA	ELEVATION: 128 AIRPORT NAME: CHARLES M. SCHULZ - SONOMA COUNTY	STS VOR/DME	VOR RWY 32, AMDT 20	AWP

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE		3. ALTIMETER SETTING
ZOA ARTCC STS TOWER	N W S	OTHER: ASOS	SOURCE: KSTS / KO69
	F A A		DISTANCE: 0 / 17.96
	A / C		HOURS REMOTE OPERATION: 0 / 47
SATISFACTORY ON:			
X VHF X UHF HF	LOCATION: KSTS		ADJUSTMENT: 0 / 47

4. MONITOR STATUS	PRIMARY NAVAID: STS VOR/DME	
	MONITOR POINT: POCC	
	HRS OPTN: CAT 1	24
	CAT 3	

5. APPROACH & RUNWAY LIGHTING	
	ALS
	(S) SALS
X	MALSR 32 (PCL)
X	HIRL 14, 32
	MIRL
X	REIL 14
	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:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:

9. FINAL APPROACH COURSE AIMING		RUNWAY THRESHOLD 3000	FT. FROM THRESHOLD
		ON CENTERLINE 426L	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: ADOLFO URRUTIA (ROSS F. BARTO)	DATE: 06/25/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-354

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VGSI DATA: NO VGSI

KSTS ASOS AND KO69 AWOS ON SERVICE A.

150' TREES PER FPT DATA.

OBST #11 LOCATED 1.99 NM INTO SECONDARY AREA.
OBST #13 LOCATED 5208 FT INTO SECONDARY AREA.

ORDER 8260.3, VOLUME 1, "VISUAL PORTION OF FINAL"
PENETRATIONS:
20:1
RWY 19:
148 TREE (KSTST0076) 383103.21N/1224841.43W (9.92)
155 TREE (KSTST0079) 383105.84N/1224840.60W (3.71)
151 TREE (KSTST0080) 383103.10N/1224840.60W (11.80)
158 TREE (KSTST0081) 383105.77N/1224840.24W (6.32)
162 TREE (KSTST0084) 383105.22N/1224838.01W (8.43)
157 TREE (KSTST0085) 383105.58N/1224837.08W (0.04)
155 TREE (KSTST0090) 383105.84N/1224840.90W (4.29)
148 TREE (KSTST0091) 383103.06N/1224839.27W (6.40)
162 TREE (KSTST0093) 383105.52N/1224838.01W (7.10)
150 TREE (KSTST0095) 383102.89N/1224837.33W (5.40)
145 TREE (KSTST0098) 383101.97N/1224835.43W (0.78)

FPT NOTIFIED OF PENETRATIONS.

LARGEST PT PATTERN NOT USED DUE TO AIRSPACE.

RASS PRESSURE PATTERNS SAME
KSTS 128, KO69 90
RA = 46.72.
SEE ATTACHED AIRSPACE LETTER.

MISSED APPROACH OBSTACLES CONT.
ALTERNATE:
ASC 4700
19. AAO 382056.00N/1223440.20W 2663 (6A) 1000 3700
20. TERRAIN 382056.00N/1223440.20W 2463 (2500) AS1500
4000

QUALITY 2 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	MONES OM/STS	4.90 MILES AFTER	15. AAO	382550.66N/1224424.02W	339 (2C)	250		600
	5.76 DME	MONES OM/STS						
		5.76 DME OR AT						
		HOMOX/ 0.86 DME						
		FIX						
3. MISSED APPROACH	MAP:							
	ELEV:							

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	ACTUAL
CATEGORY A	1.3 NM	350	
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

CHECKED

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
SANTA ROSA, CA	ELEVATION: 128 AIRPORT NAME: CHARLES M. SCHULZ - SONOMA COUNTY	STS VOR/DME	VOR RWY 32, AMDT 20	AWP

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
SATISFACTORY ON:	☐ N W S OTHER: ☐ F A A ☐ A / C	SOURCE: DISTANCE: 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:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: BURDE **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 380619.44N/1223535.03W **TYPE:** INT, DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	SANTA ROSA	I-STS	LOC		141.05	157.05		26.81		3000	10000
2	SCAGGS ISLAND	SGD	VORTAC	L	230.00	247.00	11.31	11.31		3000	17500
3	SAUSALITO	SAU	VORTAC	L	330.47	347.47	15.35	15.35		3000	17500
4	SANTA ROSA	STS	VOR/DME	L	140.89	156.89	26.23	26.23		3000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-STS	LOC	R-141	27	3000	10000

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

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	STS	VOR/DME	140.89	320.89	R	1		5000	14000	6	11
2	SE	SAU	VORTAC	330.47	330.47	R	1		5000	14000	6	11
3	NE	SGD	VORTAC	230.00	230.00	R	1		3200	14000	5	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	380440.10N/1223714.50W	2120	6C
2	200	AAO	375545.00N/1223436.00W	2760	4E
3	200	AAO	380440.10N/1223614.50W	2120	6C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
HOLDING PATTERNS PER ATC REQUEST.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 36L	2, 3, 4	3	KAPC	NAPA	CA (US)
IAP	VOR RWY 6	2, 3, 4	3	KAPC	NAPA	CA (US)
IAP	ILS OR LOC RWY 32	1, 2, 3		KSTS	SANTA ROSA	CA (US)
IAP	VOR RWY 32	2, 3, 4		KSTS	SANTA ROSA	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 05/05/2011

REASON FOR REVISION:
UPDATED FIX USE.
LOWERED PATTERN 3 ALTITUDE TO 3200 AND CHANGED TEMPLATES. CORRECTED INBOUND COURSE.
UPDATED PAT 1, 3 CONTROLLING OBSTACLE ACCURACY CODE.
ADDED DME TO FAC 2 TO SUPPORT KAPC VOR RWY 6 PROCEDURE CHARTING.

DEVELOPED BY: **DATE:** 10/20/2010 **OFFICE:** AVN-130 **NAME:** ADOLFO URRUTIA (THERON CYRUS)

APPROVED BY: **DATE:** 03/10/2011 **OFFICE:** AVN-130 **NAME:** DEZ SILAGYI

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: COATI **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 381858.74N/1224223.64W **TYPE:** INT, DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	SANTA ROSA	STS	VOR/DME	L	140.89	156.89	12.50	12.50		3500	17500
2	POINT REYES	PYE	VORTAC	H	011.23	028.23		16.10		3500	17500

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

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	STS	VOR/DME	140.89	320.89	L	1		3000	10000	5	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	380851.00N/1223936.00W	1496	4E

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
SANTA ROSA (FAC 1) AND POINT REYES (FAC 2) USED TO ESTABLISH FIX COORDINATES
PAT 1 PER ATC REQUEST.
PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	VOR RWY 32	1, 2		KSTS	SANTA ROSA	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
1. FIX MOVED 1.23 NM SOUTHEAST, FIX NAME NOT CHANGED PER ATC REQUEST (OPERATIONALLY ADVANTAGEOUS).
2. REMOVED I-STS LOC FROM FIX MAKE-UP (NOT USED IN ILS TO RWY 32).
3. REVISED STS VOR/DME BEARING AND DME FROM 156.81/11.28 TO 156.89/12.50, ADDED DIST FROM FAC AND RAISED MRA FROM 1900 TO 3500.
4. REVISED PYE VORTAC BEARING FROM 025.00 TO 028.23 AND ADDED DIST FROM FAC.
5. REMOVED PAT 2, REVISED HOLDING AND HOLDING CONTROLLING OBSTACLE.
6. REVISED FIX USE.
7. MOVED HOLDING LIMITED TO HOLDING RESTRICTIONS.
8. ADDED PRECIPITOUS TERRAIN EVALUATION.
9. REVISED FIX COORDINATES.
10. UPDATED PAT 1 RAD/CRS INBOUND FROM 141.00/321.00 TO 140.89/320.89.

DEVELOPED BY: **DATE:** 06/08/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (ROSS BARTO)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HOMOX **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 382942.16N/1224812.00W **TYPE:** DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	SANTA ROSA	STS	VOR/DME	L	140.89	156.89	0.86	0.86		500	17500

FIX USE:

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

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 11/15/2012

DEVELOPED BY: **DATE:** 06/22/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (ROSS BARTO)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: MONES OM **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 382512.56N/1224541.08W **TYPE:** DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	MONES	ST	OM								4500
2	SANTA ROSA	I-STS	LOC		141.05	157.05		6.33	38492	1900	4500
3	SANTA ROSA	STS	VOR/DME	L			5.76	5.76		1900	4500

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

REMARKS:
COORDINATES REFLECT LOCATION ON LOC/AZ CENTERLINE ABEAM THE MONES OM.
ACTUAL FACILITY LOCATION IS 382512.62N/1224540.91W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 32	1, 2, 3		KSTS	SANTA ROSA	CA (US)
IAP	VOR RWY 32	1, 3		KSTS	SANTA ROSA	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
ADMINISTRATIVE REVISION, FAC 1 AND FAC 2 IN HISTORY STATUS.

DEVELOPED BY: **DATE:** 05/30/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (ROSS BARTO)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: POINT REYES VORTAC **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 380447.12N/1225204.18W **TYPE:**

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	POINT REYES	PYE	VORTAC	H							45000
2	OAKLAND	OAK	VORTAC	H	287.93	304.93	37.22	37.22		5000	17500
3	SANTA ROSA	STS	VOR/DME	L	170.04	186.04	25.82	25.82		3000	17500

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

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	NW	PYE	VORTAC	324.98	144.98	R	1-1 1/2	-	4000	45000	4	29

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	380224.00N/1224924.00W	1670	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
FAC 2&3 ARE BACKUP FACILITIES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	GONGS			KCIC	CHICO	CA (US)
DP	BUCHANAN			KCCR	CONCORD	CA (US)
DP	KANAN			KCCR	CONCORD	CA (US)
DP	LIZRD			KAPC	NAPA	CA (US)
DP	MERLOT			KAPC	NAPA	CA (US)
DP	COAST			KOAK	OAKLAND	CA (US)
DP	NIMITZ			KOAK	OAKLAND	CA (US)
DP	NUEVO			KOAK	OAKLAND	CA (US)
DP	OAKLAND			KOAK	OAKLAND	CA (US)
DP	SKYLINE			KOAK	OAKLAND	CA (US)
DP	EUGEN			KSFO	SAN FRANCISCO	CA (US)
DP	MOLEN			KSFO	SAN FRANCISCO	CA (US)
DP	OFFSHORE			KSFO	SAN FRANCISCO	CA (US)
DP	PORTE			KSFO	SAN FRANCISCO	CA (US)
DP	CHARLIE			KSTS	SANTA ROSA	CA (US)
DP	FREES			KSTS	SANTA ROSA	CA (US)
EN ROUTE	J143					(US)
EN ROUTE	J501					(US)
EN ROUTE	J88					(US)
EN ROUTE	Q1					(US)
EN ROUTE	Q3					(US)
EN ROUTE	T257					(US)
EN ROUTE	V107					(US)
EN ROUTE	V25					(US)
EN ROUTE	V27					(US)
EN ROUTE	V301					(US)
IAP	LOC RWY 36L			KAPC	NAPA	CA (US)
IAP	RNAV (GPS) RWY 6			KAPC	NAPA	CA (US)
IAP	VOR RWY 6			KAPC	NAPA	CA (US)
IAP	ILS OR LOC RWY 11			KOAK	OAKLAND	CA (US)
IAP	GPS RWY 29			KO69	PETALUMA	CA (US)
IAP	VOR RWY 29			KO69	PETALUMA	CA (US)
IAP	ILS OR LOC RWY 32			KSTS	SANTA ROSA	CA (US)
IAP	RNAV (GPS) RWY 1			KSTS	SANTA ROSA	CA (US)
IAP	RNAV (GPS) RWY 32			KSTS	SANTA ROSA	CA (US)
IAP	VOR RWY 32			KSTS	SANTA ROSA	CA (US)
IAP	VOR/DME RWY 14			KSTS	SANTA ROSA	CA (US)
STAR	LEENA			KLAX	LOS ANGELES	CA (US)
STAR	HADLY			KOAK	OAKLAND	CA (US)
STAR	GOLDEN GATE		1	KSFO	SAN FRANCISCO	CA (US)
STAR	HADLY			KSFO	SAN FRANCISCO	CA (US)
STAR	POINT REYES			KSFO	SAN FRANCISCO	CA (US)
STAR	STINS		1	KSFO	SAN FRANCISCO	CA (US)
STAR	BRINY		1	KSJC	SAN JOSE	CA (US)
STAR	GOLDEN GATE		1	KSJC	SAN JOSE	CA (US)

QUALITY 2 CHECKED

REQUIRED CHARTING: DP, STAR, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
1. LOWERED MINIMUM HOLDING ALTITUDE FROM 7000 TO 4000 (KSTS VOR/DME RWY 14 AND KSTS VOR RWY 32).
2. LOWERED MINIMUM HOLDING TEMPLATE SIZE FROM P-5 TO P-4.

DEVELOPED BY:	**DATE:** 06/13/2012	**OFFICE:** AJV-354	**NAME:** ADOLFO URRUTIA (ROSS BARTO)
APPROVED BY:	**DATE:**	**OFFICE:** AJV-354	**NAME:** DEZ SILAGYI
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZOA, ZLA
ATC FACILITY:
OTHER: NORCAL APP CON

QUALITY 2 CHECK

RADIO FIX AND HOLDING DATA RECORD

NAME: SANTA ROSA VOR/DME **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 383029.44N/1224837.67W **TYPE:**

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	SANTA ROSA	STS	VOR/DME	L							17500

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

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	NW	STS	VOR/DME	320.00	140.00	R	1-1 1/2		4700	17000	6	16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	383400.00N/1225706.00W	1700	4E
1	310	AAO	384551.00N/1225045.00W	3658	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	310	134

Info. Only

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	TAKEOFF MINIMUMS	KO60	CLOVERDALE	CA (US)

REMARKS:
PAT 1 FOR ATC USE
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TAKEOFF MINIMUMS		1	KO60	CLOVERDALE	CA (US)
DP	LIZRD			KAPC	NAPA	CA (US)
DP	MERLOT			KAPC	NAPA	CA (US)
DP	FREES			KSTS	SANTA ROSA	CA (US)
DP	SANTA ROSA			KSTS	SANTA ROSA	CA (US)
DP	TAKEOFF MINIMUMS			KSTS	SANTA ROSA	CA (US)
EN ROUTE	V108					(US)
EN ROUTE	V301					(US)
EN ROUTE	V494					(US)
IAP	RNAV (GPS) RWY 32			KO60	CLOVERDALE	CA (US)
IAP	RNAV (GPS) RWY 6			KAPC	NAPA	CA (US)
IAP	VOR RWY 6			KAPC	NAPA	CA (US)
IAP	GPS RWY 13			KDVO	NOVATO	CA (US)
IAP	ILS OR LOC RWY 32			KSTS	SANTA ROSA	CA (US)
IAP	RNAV (GPS) RWY 14			KSTS	SANTA ROSA	CA (US)
IAP	VOR RWY 32			KSTS	SANTA ROSA	CA (US)
IAP	VOR/DME RWY 14			KSTS	SANTA ROSA	CA (US)
STAR	POINT REYES			KSFO	SAN FRANCISCO	CA (US)
STAR	STINS			KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: DP, STAR, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 12/15/2011

REASON FOR REVISION:
UPDATED FIX USE.
ADDED C-I-H PATTERN.
ADDED PRECIPITOUS TERRAIN ADDITION.
ADDED PROCEDURES REQUIRING C-I-H INFORMATION.
RAISED MIN HOLDING ALT FROM 3000 TO 4700.
CHANGED MIN HOLDING TEMPLATE FROM 4 TO 6.

DEVELOPED BY: **DATE:** 06/27/2011 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (THERON CYRUS)

QUALITY 2 CHECKED

APPROVED BY: **DATE:** 11/02/2011 **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SAUSALITO VORTAC **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 375119.24N/1223121.91W **TYPE:**

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	SAUSALITO	SAU	VORTAC	L							17500

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

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	NE	SAU	VORTAC	035.21	215.21	R	1-1 1/2		3300	17500	4	16
2	NE		WP	035.21	215.21	R		4	4000	17500	5	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	375545.00N/1223436.00W	2760	4E
2	200	AAO	375545.00N/1223445.00W	2760	4E
2	310	AAO	375530.60N/1223602.10W	2800	6A

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

Info. Only

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 29	KOAK	OAKLAND	CA (US)
1	ILS RWY 29 (CAT II)	KOAK	OAKLAND	CA (US)
1	ILS RWY 29 (CAT III)	KOAK	OAKLAND	CA (US)
2	RNAV (GPS) RWY 27L	KOAK	OAKLAND	CA (US)

REMARKS:
PAT 1 CONTROLLING OBSTACLE LOCATED 1,250 INTO SECONDARY AREA.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BUCHANAN	1		KCCR	CONCORD	CA (US)
DP	KANAN	1		KCCR	CONCORD	CA (US)
DP	LIZRD	1		KAPC	NAPA	CA (US)
DP	NIMITZ	1	1	KOAK	OAKLAND	CA (US)
DP	NUEVO	1		KOAK	OAKLAND	CA (US)
DP	OAKLAND	1		KOAK	OAKLAND	CA (US)
DP	SCAGGS ISLAND	1		KOAK	OAKLAND	CA (US)
DP	SILENT	1		KOAK	OAKLAND	CA (US)
DP	EUGEN	1		KSFO	SAN FRANCISCO	CA (US)
DP	GAP	1		KSFO	SAN FRANCISCO	CA (US)
DP	MOLEN	1		KSFO	SAN FRANCISCO	CA (US)
DP	QUIET	1		KSFO	SAN FRANCISCO	CA (US)
DP	REBAS (PROP)	1		KSFO	SAN FRANCISCO	CA (US)
DP	SAN FRANCISCO	1		KSFO	SAN FRANCISCO	CA (US)
EN ROUTE	V150	1				(US)
IAP	ILS OR LOC RWY 36L	1		KAPC	NAPA	CA (US)
IAP	RNAV (GPS) RWY 6			KAPC	NAPA	CA (US)
IAP	RNAV (GPS) Y RWY 36L			KAPC	NAPA	CA (US)
IAP	RNAV (GPS) Z RWY 36L			KAPC	NAPA	CA (US)
IAP	VOR RWY 6	1		KAPC	NAPA	CA (US)
IAP	ILS OR LOC RWY 11	1		KOAK	OAKLAND	CA (US)
IAP	ILS OR LOC RWY 29	1	1	KOAK	OAKLAND	CA (US)
IAP	ILS OR LOC/DME RWY 27R	1	1	KOAK	OAKLAND	CA (US)
IAP	ILS RWY 29 (CAT II)	1	1	KOAK	OAKLAND	CA (US)
IAP	ILS RWY 29 (CAT III)	1	1	KOAK	OAKLAND	CA (US)
IAP	RNAV (GPS) RWY 27L		2	KOAK	OAKLAND	CA (US)
IAP	RNAV (GPS) RWY 29		2	KOAK	OAKLAND	CA (US)
IAP	RNAV (RNP) Z RWY 29		2	KOAK	OAKLAND	CA (US)
IAP	VOR RWY 9R	1		KOAK	OAKLAND	CA (US)
IAP	VOR/DME RWY 27L	1		KOAK	OAKLAND	CA (US)
IAP	ILS OR LOC RWY 19L	1		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS OR LOC RWY 28L	1		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS OR LOC RWY 28R	1		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS PRM RWY 28L	1		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS RWY 28R (CAT II)	1		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS RWY 28R (CAT III)	1		KSFO	SAN FRANCISCO	CA (US)
IAP	VOR RWY 19L	1		KSFO	SAN FRANCISCO	CA (US)
IAP	VOR-B	1		KSFO	SAN FRANCISCO	CA (US)
IAP	ILS OR LOC RWY 32	1		KSTS	SANTA ROSA	CA (US)
IAP	VOR RWY 32	1		KSTS	SANTA ROSA	CA (US)

QUALITY 2 CHECKED

STAR	COMMO	1	KOAK	OAKLAND	CA (US)
STAR	MANTECA	1	KOAK	OAKLAND	CA (US)
STAR	RAIDR (RNAV)	1	KOAK	OAKLAND	CA (US)
STAR	HADLY	1	KSFO	SAN FRANCISCO	CA (US)
STAR	LOCKE	1	KSFO	SAN FRANCISCO	CA (US)
STAR	POINT REYES	1	KSFO	SAN FRANCISCO	CA (US)
STAR	STINS	1	KSFO	SAN FRANCISCO	CA (US)
STAR	BRINY		KSJC	SAN JOSE	CA (US)

REQUIRED CHARTING: DP, STAR, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 10/22/2009

REASON FOR REVISION:
CORRECTED PAT 2 LEG LENGTH FROM 5 TO 4.
UPDATED ACCURACY CODE ON PAT 3 CONTROLLING OBSTACLE.
UPDATED FORM TO NEW FORMAT.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 05/12/2009 **OFFICE:** AVN-130 **NAME:** DEZ SILAGYI (RUSS ROSLEWSKI)

APPROVED BY: **DATE:** 08/11/2009 **OFFICE:** AVN-130 **NAME:** RICK WEBB

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZOA
ATC FACILITY: NORCAL TRACON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SCAGGS ISLAND VORTAC **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 381045.70N/1222223.35W **TYPE:**

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	SCAGGS ISLAND	SGD	VORTAC	L							17500

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

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	N	SGD	VORTAC	347.00	167.00	L	1		4000	10000	4	9
2	E	SGD	VORTAC	095.93	275.93	L	1		3000	10000	4	9
3	N		WP	360.00	180.00	R		4	3000	10000	5	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	381930.00N/1222321.00W	1500	4E
2	200	AAO	380851.00N/1221209.00W	1267	4E
3	200	AAO	381957.00N/1222445.00W	1861	4E

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST
PAT 2 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

Info. Only

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BUCHANAN			KCCR	CONCORD	CA (US)
DP	KANAN			KCCR	CONCORD	CA (US)
DP	LIZRD			KAPC	NAPA	CA (US)
DP	MERLOT		1	KAPC	NAPA	CA (US)
DP	NAPAA			KAPC	NAPA	CA (US)
DP	TAKEOFF MINIMUMS			KAPC	NAPA	CA (US)
DP	TAKEOFF MINIMUMS			KDVO	NOVATO	CA (US)
DP	MARINA			KOAK	OAKLAND	CA (US)
DP	NIMITZ			KOAK	OAKLAND	CA (US)
DP	OAKLAND			KOAK	OAKLAND	CA (US)
DP	SALAD			KOAK	OAKLAND	CA (US)
DP	SCAGGS ISLAND			KOAK	OAKLAND	CA (US)
DP	SILENT			KOAK	OAKLAND	CA (US)
DP	TAKEOFF MINIMUMS			KO69	PETALUMA	CA (US)
DP	GAP			KSFO	SAN FRANCISCO	CA (US)
DP	QUIET			KSFO	SAN FRANCISCO	CA (US)
DP	REBAS (PROP)			KSFO	SAN FRANCISCO	CA (US)
DP	CHARLIE			KSTS	SANTA ROSA	CA (US)
DP	FREES			KSTS	SANTA ROSA	CA (US)
DP	SANTA ROSA			KSTS	SANTA ROSA	CA (US)
EN ROUTE	T263					(US)
EN ROUTE	V108					(US)
EN ROUTE	V87					CA (US)
IAP	LDA RWY 19R			KCCR	CONCORD	CA (US)
IAP	VOR RWY 19R			KCCR	CONCORD	CA (US)
IAP	ILS OR LOC RWY 21R			KSUU	FAIRFIELD	CA (US)
IAP	ILS OR LOC RWY 3L			KSUU	FAIRFIELD	CA (US)
IAP	ILS OR LOC RWY 36L			KAPC	NAPA	CA (US)
IAP	VOR RWY 06			KAPC	NAPA	CA (US)
IAP	GPS RWY 13		3	KDVO	NOVATO	CA (US)
IAP	ILS OR LOC/DME RWY 27R			KOAK	OAKLAND	CA (US)
IAP	RNAV (GPS) RWY 29			KO69	PETALUMA	CA (US)
IAP	VOR RWY 29		2	KO69	PETALUMA	CA (US)
IAP	ILS OR LOC RWY 19L			KSFO	SAN FRANCISCO	CA (US)
IAP	LDA PRM RWY 28R			KSFO	SAN FRANCISCO	CA (US)
IAP	LDA/DME RWY 28R			KSFO	SAN FRANCISCO	CA (US)
IAP	ILS OR LOC RWY 32		1	KSTS	SANTA ROSA	CA (US)
IAP	RNAV (GPS) RWY 32			KSTS	SANTA ROSA	CA (US)
IAP	VOR RWY 32			KSTS	SANTA ROSA	CA (US)
IAP	VOR/DME RWY 14, ALT MA		2	KSTS	SANTA ROSA	CA (US)
STAR	OAKEY			KSUU	FAIRFIELD	CA (US)
STAR	SEATO			KSUU	FAIRFIELD	CA (US)
STAR	COMMO			KOAK	OAKLAND	CA (US)

QUALITY CHECKED 2

STAR	MADWIN	KOAK	OAKLAND	CA (US)
STAR	MANTECA	KOAK	OAKLAND	CA (US)
STAR	MARVN	KOAK	OAKLAND	CA (US)
STAR	GOLDEN GATE	KSFO	SAN FRANCISCO	CA (US)
STAR	LOCKE	KSFO	SAN FRANCISCO	CA (US)
STAR	MODESTO	KSFO	SAN FRANCISCO	CA (US)
STAR	POINT REYES	KSFO	SAN FRANCISCO	CA (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, MILITARY STAR, IAP, AREA, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 18 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
ADMIN REVISION, FAC1 IN HISTORY STATUS.
UPDATED PAT1.CONTROLLING OBSTACLE FROM 1464' TO 1500'.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 07/29/2011 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (ALLAN WILL)

APPROVED BY: **DATE:** 03/09/2012 **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZOA
ATC FACILITY: NORCAL APP CON, KAPC ATCT
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: VUCDU **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 382228.75N/1224417.14W **TYPE:** DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	SANTA ROSA	STS	VOR/DME	L	140.89	156.89	8.70	8.70		2600	17500

FIX USE:

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

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 11/15/2012

DEVELOPED BY: **DATE:** 06/22/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (ROSS BARTO)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **SANTA ROSA** STATE: **CA**

AIRPORT NAME: **CHARLES M. SCHULZ - SONOMA COUNTY** ID: **KSTS**

PROCEDURE: **VOR RWY 32** AMDT: **20**

DOCKET # :
(96-AXX-X/Required/Not Required)

ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.

1. Distance from **STS VOR/DME** to 1000' point **3.09**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **2.31**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **336.89**
4. High Terrain in **FINAL** segment containing 1000' point **139**
5. Distance from **STS VOR/DME** to 1500' point **5.16**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **2.51**
7. True Course of **FINAL** segment containing 1500' point **336.89**
8. High Terrain in **FINAL** segment containing 1500' point **139**
9. Threshold Coordinates (if straight-in) ... **383008.46N** / **1224820.33W**
10. ARP Coordinates ..... **383032.36N** / **1224846.35W**
11. Runway Approach End and distance furthest from ARP.....RWY **32**
    Distance **0.52** NM
12. FAF Coordinates ..... **382512.56N** / **1224541.08W**
    (Click to Select)

REMARKS: Approach/Drawing attached.