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
SNS VORTAC	RIGDE INT/SNS 17.98 DME	261.80 / 17.98	3500
SAGUE INT/SNS 25.19 DME (IAF)	RIGDE INT/SNS 17.98 DME (NOPT)	081.80 / 7.21 (SNS R-262)	3300
RIGDE INT/SNS 17.98 DME (IF/IAF)	OLMIE INT/SNS 12.98 DME	081.80 / 5.00 (SNS R-262)	1800

MISSED APPROACH

MAP: 5.00 MILES AFTER OLMIE INT/12.98 DME OR AT SNS 7.98 DME FIX

CLIMB TO 1200 THEN CLIMBING LEFT TURN TO 3300 ON HEADING 230 AND ON SNS VORTAC R-262 TO RIGDE INT/SNS 17.98 DME AND HOLD.

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 081.80 INBOUND.
CHART FAS OBST: 369 TOWER 364128N/1214804W
CHART VDP AT 9.53 DME;
DISTANCE VDP TO THLD 1.55 MILES.
OLMIE TO RW11: 3.06/40.

1. PT L SIDE OF COURSE 261.80 OUTBOUND 3300 FT WITHIN 10 MILES OF RIGDE (IAF)
2.
3. FAC 081.80 FAF OLMIE INT/SNS 12.98 DME DIST FAF TO MAP 5.00 THLD 5.00
4. MIN. ALT RIGDE 3300, OLMIE 1800
8. MSA FROM: SNS VORTAC 100-220 6300, 220-310 4200, 310-100 5200

MAG VAR: 17E EPOCH YEAR:1965

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: N A X

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-11	680	1	544	680	1	544		NA			NA				
CIRCLING	680	1	543	700	1	563		NA			NA				

NOTES:

CHART NOTE: ADF OR DME REQUIRED.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SAGUE ON V27 NORTHWEST BOUND.
CHART PLANVIEW NOTE: ADF OR DME REQUIRED.
(SEE FORM 8260-10)

QUALITY CHECKED

CITY AND STATE	ELEVATION: 137 THRE: 136 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP
MARINA, CA	MARINA MUNI	SNS	VOR RWY 11, AMDT 2	AMDT 1
				DATE 02/11/2010

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] **NORCAL APP CON, ZOA ARTCC, APT MGR**

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME: **ADOLFO URRUTIA (MICHAEL R. GARRITY JR.)**	FIFO **AJV-354**	DATE: **04/02/2012**
APPROVED BY		
NAME: **DEZ SILAGYI** **MANAGER**	FIFO **AJV-354**	DATE:

CHANGES:

1. CHANGED PRIMARY ALTIMETER SOURCE TO KOAR / CHANGED SECONDARY ALTIMETER SOURCE TO KMRY.
2 CHANGED MA/CLEARANCE LIMIT FROM MOVER INT TO RIGDE INT.
3. FEEDER MIN ALTITUDE RAISED FROM 3400 FT TO 3500 FT.
4. S-11 CAT A/B MDA LOWERED FROM 720 FT TO 680 FT.
5. CIRCLING CAT A/B MDA LOWERED FROM 720/720 TO 680/700.
6. CHANGED BRIEFING STRIP NOTE FROM ADF OR RADAR REQUIRED TO ADF OR DME REQUIRED.

REASONS:

1,4,5. KOAR ALTIMETER SOURCE RETURNED TO SERVICE.
2. FPT REQUEST / PDG NDB DECOMMISSION DATE 9-20-2012.
3. NEW OBSTRUCTION.
6. BOTH FAF AND MISSED APPROACH CLEARANCE LIMIT FIX REQUIRE THE USE OF DME OR ADF.

QUALITY 1 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: VDP NA WITH MONTEREY ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MONTEREY ALTIMETER SETTING AND INCREASE ALL MDA 40 FT.

QUALITY CHECKED 1

CITY AND STATE	ELEVATION: 137 THRE: 136 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
MARINA, CA	MARINA MUNI	SNS	VOR RWY 11, AMDT 2	AMDT: 1
				DATED: 02/11/2010

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:

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	SNS VORTAC	RIGDE INT/SNS	1. AAO	363428.04N/1213920.82W	2359 (2C)	2000	SA-920 AT61	3500
		17.98 DME	2. TERRAIN	363627.00N/1214048.00W	817 (800)		AS1500	2300
INITIAL	SAGUE INT/SNS	RIGDE INT/SNS	3. SHIP MAST	364600.00N/1220000.00W	208 (4D)	1000	AT2092	3300
	25.19 DME	17.98 DME	4. WATER	364600.00N/1220000.00W	0 (0)		AS1500	1500
INTERMEDIATE	RIGDE INT/SNS	OLMIE INT/SNS	5. SHIP MAST	364235.00N/1215843.00W	208 (4D)	500	AT1092	1800
	17.98 DME	12.98 DME	6. WATER	364235.00N/1215843.00W	0 (0)		AS1500	1500
	(IF/IAF)							
FINAL	OLMIE INT/SNS	5.00 MILES AFTER	7. TOWER (06-000133)	364128.00N/1214804.00W	369 (1D)	250	AC50	680
	12.98 DME	OLMIE INT/12.98						
		DME OR AT SNS						
		7.98 DME FIX						
2. PROCEDURE TURN	RIGDE	10 NM	8. AAO	363512.00N/1215509.00W	988 (4E)	1000	AT1312	3300
			9. TERRAIN	363512.00N/1215509.00W	788 (800)		AS1500	2300
3. MISSED APPROACH — MAP:	5.00 MILES AFTER	RIGDE INT/SNS				ASC		3300
	OLMIE	17.98 DME	10. AAO	363755.27N/1214520.88W	779 (2C)	1000		1800
ELEV:	430		11. TERRAIN	363755.27N/1214520.88W	579 (600)		AS1500	2100

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	543	12. TREE	363918.00N/1214536.65W	339 (2C)	300	SI	680
CATEGORY B	1.5 NM	450	563	13. TREE	363916.26N/1214522.61W	399 (2C)	300		700
CATEGORY C	1.7 NM	450							
CATEGORY D	2.3 NM	550							
CATEGORY E	4.5 NM	550							

QUALITY CHECKED

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: SNS VORTAC

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
100-220	AAO	158/ 21.1	5246 (4E)	6300	310-100	AAO	082/ 28.2	4193 (4E)	5200
220-310	AAO	208/ 18.1	3137 (4E)	4200					

CITY AND STATE	ELEVATION: 137 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
MARINA, CA	MARINA MUNI	SNS VORTAC	VOR RWY 11, AMDT 2	AWP

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
NORCAL APP CON		N W S	OTHER: AWOS-3	SOURCE: KOAR / KMRY
		F A A		DISTANCE: 0 / 6.89
SATISFACTORY ON:		A / C		HOURS REMOTE OPERATION: 24 / BACKUP
X V H F X U H F H F	LOCATION: KOAR			ADJUSTMENT: 0 / 33

4. MONITOR STATUS	PRIMARY NAVAID: SNS VORTAC		
	MONITOR POINT: POCC		
	HRS OPTN:	CAT 1	24
		CAT 3	

5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
		MALS
		HIRL
	X	MIRL 11, 29
		REIL
		TDZ
		C/LINE
		OTHER (SPECIFY)

6. RUNWAY MARKINGS	BASIC	BSC-F 11, 29
	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	X	RUNWAY THRESHOLD	FT. FROM THRESHOLD
		ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: ADOLFO URRUTIA (MICHAEL R. GARRITY JR.)	DATE: 04/02/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-354

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

RASS PRESSURE PATTERNS SAME
KOAR 136.6, KMRY 257.0
RA = 32.71.
SEE ATTACHED AIRSPACE LETTER.

KOAR NOT ON SERVICE A.

KMRY ON SERVICE A.

100 FT VEGETATION HEIGHT USED IN VICINITY OF APT.

34:1 IS NOT CLEAR.

TERPS, VOLUME 1, VISUAL PORTION OF FINAL PENETRATIONS:

34:1
143 BUSH (KOARL006) 364106.53N/1214602.30W (1.74)

FEEDER CONTROLLING OBST LOCATED 10,207.87 FT FROM INNER EDGE OF SECONDARY AREA.

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: MUNSO LOM **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 363708.84N/1215622.14W **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	MUNSO	MR	LOM								17500
2	MONTEREY	I-MRY	LOC/DME		277.75	292.75	5.60	5.60	34037	1700	4700

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	W	MR	LOM	279.10	099.10	R	1		2300	10000	5	9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TREE (KMRY0124)	363348.46N/1215236.69W	1118	1A

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
MUNSO (FAC 1) AND MONTEREY (FAC 2) USED TO ESTABLISH FIX COORDINATES
COORDINATES REFLECT LOCATION ON LOC/AZ CENTERLINE ABEAM THE MUNSO LOM.
ACTUAL FACILITY LOCATION IS 363714.71N/1215619.09W.
HOLDING IS ATC REQUEST DO NOT CHART.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MUNSO	1		KMRY	MONTEREY	CA (US)
IAP	VOR RWY 11	1		KOAR	MARINA	CA (US)
IAP	ILS OR LOC RWY 10R	1, 2		KMRY	MONTEREY	CA (US)
IAP	ILS RWY 31	1		KSNS	SALINAS	CA (US)
IAP	LOC/DME RWY 31	1		KSNS	SALINAS	CA (US)
IAP	VOR RWY 13	1		KSNS	SALINAS	CA (US)
STAR	PEBBS ARRIVAL	1		KMRY	MONTEREY	CA (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
UPDATED FAC2 MAG BRG AND DIST FROM FAC.
UPDATED FIX USES.

DEVELOPED BY: **DATE:** 04/03/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (MICHAEL GARRITY)

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

SIGNATURE:

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

QUALITY 1 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: OLMIE **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 364148.00N/1215208.40W **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	SALINAS	SNS	VORTAC	H	261.80	278.80	12.98	12.98		1800	14000
2	MUNSO	MR	LOM		021.45	036.45		5.66		1800	14000

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

REMARKS:
SALINAS (FAC 1) AND MUNSO (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	VOR RWY 11	1, 2		KOAR	MARINA	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
ADDED DIST FROM FAC ENTRIES FOR FAC1 AND FAC2.
UPDATED BEARING FOR FAC2.
UPDATED FIX USE.
UPDATED DISTRIBUTION.

DEVELOPED BY: **DATE:** 04/02/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (MICHAEL GARRITY)

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

SIGNATURE:

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

QUALITY 1 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: RIGDE **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 364232.97N/1215817.26W **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	SALINAS	SNS	VORTAC	H	261.80	278.80	17.98	17.98		3300	14000
2	MUNSO	MR	LOM		328.34	343.34		5.53		3300	14000

HOLDING: **HOLDING TYPE OF ACTION:** ESTABLISH

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	W	SNS	VORTAC	261.80	081.80	R	1		3300	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	SHIP MAST	364600.00N/1220000.00W	208	4D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
SALINAS (FAC 1) AND MUNSO (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	VOR RWY 11	1, 2	1	KOAR	MARINA	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
UPDATED DIST FROM FAC ENTRIES FOR FAC1 AND FAC2.
UPDATED FAC2 BEARING.
ADDED PAT1.
UPDATED FIX USE.

07/18/12: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 06/27/12.
1. CHANGED MAG/TRUE BEARING FROM FAC 2 180 DEGREES FROM 148.34/163.34 TO 328.34/343.34

DEVELOPED BY: **DATE:** 03/30/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (MICHAEL GARRITY)

APPROVED BY: **DATE:** 06/27/2012 **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

QUALITY CHECKED 1

RADIO FIX AND HOLDING DATA RECORD

NAME: SAGUE **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 364337.27N/1220709.37W **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	BIG SUR	BSR	VORTAC	L	308.91	324.91		40.03		6000	17500
2	SALINAS	SNS	VORTAC	H	261.80	278.80	25.19	25.19		6000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
BSR	VORTAC	R-309	41	6000	17500

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

REMARKS:
SALINAS (FAC 2) AND BIG SUR (FAC 1) USED TO ESTABLISH FIX COORDINATES
CHART DME ON IAP ONLY.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V-27	1, 2				
IAP	VOR RWY 11	1, 2		KOAR	MARINA	CA (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
UPDATED DIST TO FAC FOR FAC1 AND FAC2.
UPDATED FAC1 ESV.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 04/02/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (MICHAEL GARRITY)

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

SIGNATURE:

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

QUALITY 1 CHECKED

RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 363949.80N/1213611.46W **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	SALINAS	SNS	VORTAC	H							45000

FIX RESTRICTIONS:
MCA V230 6000 EASTBOUND

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	W	SNS	VORTAC	264.00	084.00	L	1-1 1/2		5000	17500	5	17
2	NW	SNS	VORTAC	293.00	113.00	L	1-1 1/2		5000	17500	5	17
3	W		WP	264.00	084.00	L		5	5000	10000	6	14
4	W		WP	281.84	101.84	L		5	5000	10000	6	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	364109.00N/1212806.00W	3101	4E
1	310	TOWER (06-000115)	364523.00N/1213009.00W	3479	1D
2	200	AAO	364109.00N/1212806.00W	3101	4E
2	310	TOWER (06-000115)	364523.00N/1213009.00W	3479	1D
3	200	TOWER (06-000115)	364523.00N/1213009.00W	3479	1D
3	310	TOWER (06-000115)	364523.00N/1213009.00W	3479	1D
4	200	TOWER (06-000115)	364523.00N/1213009.00W	3479	1D

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	200	94
1	310	170
2	200	0
2	310	184
3	200	121
3	310	169
4	200	108

REASON FOR NONSTANDARD HOLDING:
PAT 3 ATC REQUEST
PAT 1 ATC REQUEST
PAT 2 ATC REQUEST
PAT 4 TERRAIN

INFO ONLY

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	TAKEOFF MINIMUMS	KOAR	MARINA	CA (US)
2	NDB-B	KWVI	WATSONVILLE	CA (US)
2	LOC RWY 2	KWVI	WATSONVILLE	CA (US)
2	VOR/DME-A	KWVI	WATSONVILLE	CA (US)
2	WATSONVILLE	KWVI	WATSONVILLE	CA (US)
3	RNAV (GPS) Y RWY 28L	KMRY	MONTEREY	CA (US)
3	RNAV (GPS) RWY 10L	KMRY	MONTEREY	CA (US)
3	RNAV (GPS) Z RWY 10R	KMRY	MONTEREY	CA (US)
3	RNAV (GPS) RWY 2	KWVI	WATSONVILLE	CA (US)

REMARKS:
PRECIPITOUS EVALUATION COMPLETE.
PAT 3 & 4 - CONTROLLING OBSTACLE LOCATED 8627.84 FT INTO SECONDARY.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TAKEOFF MINIMUMS		1	KOAR	MARINA	CA (US)
DP	MONTEREY			KMRY	MONTEREY	CA (US)
DP	MUNSO			KMRY	MONTEREY	CA (US)
DP	SECA			KMRY	MONTEREY	CA (US)
DP	TAKEOFF MINIMUMS			KMRY	MONTEREY	CA (US)
DP	TORO			KMRY	MONTEREY	CA (US)
DP	HOOKS			KNUQ	MOUNTAIN VIEW	CA (US)
DP	SOUTHLAND			KNUQ	MOUNTAIN VIEW	CA (US)
DP	COAST			KOAK	OAKLAND	CA (US)

QUALITY CHECKED 1

DP	NEUVO		KOAK	OAKLAND	CA (US)
DP	CHALONE		KSNS	SALINAS	CA (US)
DP	SALINAS		KSNS	SALINAS	CA (US)
DP	TAKEOFF MINIMUMS		KSNS	SALINAS	CA (US)
DP	EUGEN		KSFO	SAN FRANCISCO	CA (US)
DP	OFFSHORE		KSFO	SAN FRANCISCO	CA (US)
DP	MOONY		KSJC	SAN JOSE	CA (US)
DP	SAN JOSE		KSJC	SAN JOSE	CA (US)
DP	WATSONVILLE	2	KWVI	WATSONVILLE	CA (US)
EN ROUTE	J110				(US)
EN ROUTE	J126				(US)
EN ROUTE	J6				(US)
EN ROUTE	J88				(US)
EN ROUTE	V111				(US)
EN ROUTE	V137				(US)
EN ROUTE	V230				(US)
EN ROUTE	V248				(US)
EN ROUTE	V25				(US)
EN ROUTE	V87				(US)
IAP	VOR RWY 11		KOAR	MARINA	CA (US)
IAP	VOR/DME RWY 29		KOAR	MARINA	CA (US)
IAP	GPS RWY 28R	3	KMRY	MONTEREY	CA (US)
IAP	ILS OR LOC RWY 10R	1	KMRY	MONTEREY	CA (US)
IAP	LOC/DME RWY 28L	3	KMRY	MONTEREY	CA (US)
IAP	MOSS LANDING VISUAL RWY 28L		KMRY	MONTEREY	CA (US)
IAP	RNAV (GPS) RWY 10L	3	KMRY	MONTEREY	CA (US)
IAP	RNAV (GPS) Y RWY 28L	3	KMRY	MONTEREY	CA (US)
IAP	RNAV (GPS) Z RWY 10R	3	KMRY	MONTEREY	CA (US)
IAP	RNAV (RNP) Z RWY 28L	4	KMRY	MONTEREY	CA (US)
IAP	ILS RWY 31		KSNS	SALINAS	CA (US)
IAP	LOC/DME RWY 31		KSNS	SALINAS	CA (US)
IAP	VOR RWY 31		KSNS	SALINAS	CA (US)
IAP	ILS OR LOC/DME RWY 30L		KSJC	SAN JOSE	CA (US)
IAP	NDB/DME RWY 30L		KSJC	SAN JOSE	CA (US)
IAP	GPS RWY 32		KE16	SAN MARTIN	CA (US)
IAP	LOC RWY 2	2	KWVI	WATSONVILLE	CA (US)
IAP	NDB-B	2	KWVI	WATSONVILLE	CA (US)
IAP	RNAV (GPS) RWY 2	3	KWVI	WATSONVILLE	CA (US)
IAP	VOR/DME-A	2	KWVI	WATSONVILLE	CA (US)
STAR	LEENA		KLAX	LOS ANGELES	CA (US)
STAR	BIG SUR		KSFO	SAN FRANCISCO	CA (US)
STAR	HADLY		KSFO	SAN FRANCISCO	CA (US)
STAR	CAPITOL		KSJC	SAN JOSE	CA (US)
STAR	EL NIDO		KSJC	SAN JOSE	CA (US)
STAR	JAWWS		KSJC	SAN JOSE	CA (US)
STAR	ROBIE		KSJC	SAN JOSE	CA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
1. CHANGED PAT 1 & 2 MAX TEMPLATE TO 17.
2. CHANGED PAT 3 MAX TEMPLATE TO 14.
3. REMOVED "200'" FROM PAT 1 & 2 OBSTRUCTION DESCRIPTION.
4. UPDATED PR ADJUSTMENTS FOR ALL PATS.
5. ADDED REASONS FOR NONSTANDARD HOLDING.
6. MOVED SECONDARY AREA REMARK FROM HOLDING RESTRICTIONS TO REMARKS.
7. ADDED "PRECIPITOUS EVALUATION COMPLETE" TO REMARKS.
8. ADDED KWVI - VOR/DME-A AND KWVI - NDB-B TO PROCEDURES REQUIRING CIH.
9. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 03/23/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (WES COMBS)

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

SIGNATURE:

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

QUALITY CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **MARINA** STATE: **CA**

AIRPORT NAME: **MARINA MUNI** ID: **KOAR**

PROCEDURE: **VOR RWY 11** AMDT: **2**

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 **THLD** to 1000' point **3.00**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **3.10**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **098.80**
4. High Terrain in **FINAL** segment containing 1000' point **197**
5. Distance from **THLD** to 1500' point **4.80**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **3.28**
7. True Course of **FINAL** segment containing 1500' point **098.90**
8. High Terrain in **FINAL** segment containing 1500' point **197**
9. Threshold Coordinates (if straight-in) ... **364102.79N** / **1214559.95W**
10. ARP Coordinates ..... **364053.50N** / **1214542.00W**
11. Runway Approach End and distance furthest from ARP.....RWY **29**
    Distance **0.29** NM
12. FAF Coordinates ..... **364148.00N** / **1215208.40W**
    (Click to Select)

REMARKS: Approach/Drawing attached.