

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

Bearings, headings, courses, tracks 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 feet RVR.

<u>AIRPORT</u> HALF MOON BAY	<u>AIRPORT ID</u> KHAJ	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 12	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> HALF MOON BAY	<u>STATE</u> CA	
<u>AIRPORT ELEVATION</u> 66	<u>TDZE</u> 59	<u>SUPERSEDED</u> RNAV (GPS) Y RWY 12	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 09/28/2006	<u>MAG VAR</u> 15E	<u>EPOCH YEAR</u> 1995
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
GOBBS	IAF	FUJCE		TF	FB	1.00	167.38	7.15	3000
FUJCE	IF	JEVXY		TF	FB	1.00	121.83	6.23	1700
JEVXY	FAF	RW12	MAP	TF	FO	0.30	121.89	4.87	
RW12	MAP	700 MSL		CA			121.89		
700 MSL		SEEMS		DF	FO	1.00			4000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW12

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 700 THEN CLIMBING RIGHT TURN TO 4000 DIRECT SEEMS AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. PROFILE STARTS AT FUJCE

3. FAC: 121.89

FAF: JEVXY

DIST FAF TO MAP: 4.87

DIST FAF TO THLD: 4.87

4. MIN ALT: FUJCE 3000, JEVXY 1700

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

301 HAT: 0.80

GS ANT:

6. MIN GP INCPT: 1700

GP ALT AT FAF : JEVXY 1700

OM:

MM:

IM:

7. GP ANGLE: 3.10

34:1: IS NOT CLEAR

20:1: IS CLEAR

TCH: 40.0

8. MSA FROM: RW12 4500

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING NA EAST OF RWY 12-30.
CHART NOTE: RWY 12 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

CHART FAS OBST:519 TREE 373121.71N/1222926.87W
CHART CIRCLING ICON.
CHART VDP AT 1.04 NM TO RW12*
*LNAV ONLY
WAAS CHANNEL #99742
REFERENCE PATH ID: W12A
HOLD NW, RT, 144.00 INBOUND
LTP HAE: -15.1 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	360	7/8	301	360	7/8	301	360	7/8	301	360	7/8	301			
LNAV/VNAV DA	652	1 3/4	593	652	1 3/4	593	652	1 3/4	593	652	1 3/4	593			
LNAV MDA	660	1	601	660	1	601	660	1 3/4	601	660	1 3/4	601			
CIRCLING	660	1	594	660	1	594	660	1 3/4	594	660	2	594			



CHANGES - REASONS

1. ATC REQUESTED TO COMBINE RNAV GPS Y RWY 12 AND RNAV GPS Z RWY 12 - NEW PROCEDURE NAME "RNAV (GPS) RWY 12"
3. ADDED LPV AND LNAV/VNAV LINES OF MINIMA AND ALL ASSOCIATED NOTES - ATC REQUEST LPV LINE OF MINIMA.
4. ADDED C AND D CATEGORIES - ATC REQUEST FOR CAT C AND D CIRCLING MINIMUMS.
5. MISSED APPROACH CHANGED FROM A CLIMBING RIGHT TURN TO 6000 TO A CLIMBING RIGHT TURN TO 4000 - ATC REQUEST.
6. PFAF MOVED 396.01 FEET NORTHWEST - MOVED TO MEET 3.10 GPA.
- 7.BACKUP ALTIMETER LINES OF MINIMA REMOVED - ADDED AS 8260-9 REMARK.
- 8.DISTANCE FROM FAF TO MAP/THLD CHANGED FROM 4.80 TO 4.87. - MOVED TO 3.10 GPA PFAF LOCATION.
- 9.20:1 IS CLEAR
10. NEW MDA/HAT CHANGED FROM 760/701 TO 660/601 - NEW CONTROLLING OBSTACLE
- 11.CIRCLING MDA/HAA CHANGED FROM 760/694 TO 660/594. APPLICATION OF EXPANDING CIRCLING CRITERIA, NEW OBSTACLES.
12. DELETED CHART NOTE: DME/DME RNP - 0.3 NA - NO LONGER REQUIRED PER 8260.19H CHAPTER 8.
13. ADDED RNP APCH TO PBN REQUIREMENTS NOTES - PER 8260.19H CHAPTER 8.
14. CHANGED CHART NOTE: RWY 12 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - UPDATED TO CURRENT 8260.19H VERBIAGE.
15. ADDED CHART CIRCLING ICON TO ADDITIONAL FLIGHT DATA. APPLICATION OF CIRCLING CRITERIA.
16. CHANGED VDP FROM 1.98 NM TO RWY 12 TO 1.04 NM. CURRENT VDP CRITERIA.
17. ADDED *LNAV ONLY TO ADDITIONAL FLIGHT DATA - LPV MINIMUMS ADDED.

12/27/18: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 12/10/2018.
1. FUJCE TO JEVXY DISTANCE CHANGED FROM 6.30 TO 6.23 IN TERMINAL ROUTES.

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: NORCAL APP CON, ZOA, AMGR, WST FPT

FLIGHT CHECKED BY

THOMAS EDWARD MOLOKIE

Digitally signed by

DAVID DANNER

Jan 02, 2019

OFFICE

FIOG

DATE

12/09/2018

DEVELOPED BY

DAVID DANNER (JOSEPH HILLEY)

Digitally signed by

DAVID DANNER

Jan 02, 2019

OFFICE

AJV-5421

DATE

10/10/2018

APPROVED BY

JULIE MORGAN

Digitally signed by

DAVID DANNER

Jan 02, 2019

OFFICE

AJV-5420

DATE

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KHAF
RUNWAY	RW12
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W12A
LTP/FTP LATITUDE	373100.9915N
LTP/FTP LONGITUDE	1223019.0000W
LTP/FTP ELLIPSOIDAL HEIGHT	-00151
FPAP LATITUDE	372955.8165N
FPAP LONGITUDE	1222902.5410W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.10
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1456
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	7DCDB64B

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+00179
FPAP ORTHOMETRIC HEIGHT	+00179



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

<u>AIRPORT</u> HALF MOON BAY	<u>AIRPORT ID</u> KHAF	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 12	<u>AMDT NO.</u> 1	<u>CITY</u> HALF MOON BAY	<u>STATE</u> CA	<u>AIRPORT ELEVATION</u> 66	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM
GOBBS

TO
FUJCE

<u>RNP</u>	<u>DISTANCE</u> 7.15	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.BOAT	373932.85N/1223951.55W	208	50	20	2C	1000				DG1700	3000
2.TERRAIN	373932.85N/1223951.55W	0 (0)								AS1500	1500

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM
FUJCE

TO
JEVXY

<u>RNP</u>	<u>DISTANCE</u> 6.23	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.BOAT	373932.85N/1223951.55W	208	50	20	2C	500				DG900	1700
2.TERRAIN	373932.85N/1223951.55W	0 (0)								AS1500	1500

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LPV

FROM

JEVXY

TO

RW12

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	4.87		DA	301								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
3.TREE (06-042452)	373113.43N/1223040.53W		151	20	10	1B		32.48:1			MA51 AC10	360

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM

JEVXY

TO

DA

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	4.80		DA	593								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
			652					ASC				652

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV

FROM

JEVXY

TO

RW12

RNP

DISTANCE

PAT

MAP

HAT

HMAS

4.87

RW12

601

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
4.TREE	373121.71N/1222926.87W	519	50	20	2C	250				SA-117	660

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL OBS LOCATED 853.67 FT INTO THE SECONDARY.

MISSED APPROACH : LPV

FROM

DA

TO

SEEMS

RNP

DISTANCE

PAT

MAP

HAT

HMAS

149

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.TREE (06-042490)	373123.54N/1223041.56W	148	20	10	1B		ASC			AC10	4000
6.TREE	373119.82N/1222854.36W	659	50	20	2C	1000					1700
7.TERRAIN	373100.00N/1223039.00W	98 (100)								AS1500	1600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH : LNAV/VNAV

FROM

DA

TO

SEEMS

RNP	DISTANCE	PAT	MAP	HAT			HMAS				
							486				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC			AC10	4000
6.TREE	373119.82N/1222854.36W	659	50	20	2C	1000					1700
7.TERRAIN	373100.00N/1223039.00W	98 (100)								AS1500	1600

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

MISSED APPROACH : LNAV

FROM

RW12

TO

SEEMS

RNP	DISTANCE	PAT	MAP	HAT			HMAS				
							560				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC			AC10	4000
6.TREE	373119.82N/1222854.36W	659	50	20	2C	1000					1700
7.TERRAIN	373100.00N/1223039.00W	98 (100)								AS1500	1600

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
8.TOWER (06-001589)	372954.00N/1222957.00W	1.30	594	292	500	125	4D	300		AC50	660
CATEGORY B											
8.TOWER (06-001589)	372954.00N/1222957.00W	1.81	594	292	500	125	4D	300		AC50	660
CATEGORY C											
8.TOWER (06-001589)	372954.00N/1222957.00W	2.84	594	292	500	125	4D	300		AC50	660
CATEGORY D											
8.TOWER (06-001589)	372954.00N/1222957.00W	3.71	594	292	500	125	4D	300		AC50	660

CIRCLING REMARKS:

FLT CHK: REQUEST 4D EVALUATION OF OBSTACLE #8.

MSA

CENTER	RADIUS
RW12	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	371324.00N/1220536.00W	117	26.4	3432	164	98	4E	1000			4500

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

TAA NOT DEVELOPED PER FPT

VEGETATION HEIGHT 100' PER FPT.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
NORCAL APP CON, ZOA ARTCC, OAK FSS

<u>WX SERVICE</u> AWOS	<u>LOCATION</u> KHAF	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KHAF	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KSFO	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KSFO	<u>DISTANCE</u> 8.728	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 28

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KHAF 66, KSFO 13
RA = 27.52.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW12 - MIRL (PCL), PAPI-2L (PCL)		NPI-G	
RW30 - MIRL (PCL), REIL (PCL), PAPI-2L (PCL)		NPI-G	

<u>GLIDESLOPE ANGLE</u> 3.10	<u>ELEV RWY THRESHOLD</u> 58.8	<u>TCH</u> 40.0	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 23.6
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<u>FINAL APPROACH COURSE AIMING</u>			
RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE 751.882
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

<u>CRITICAL TEMPERATURES</u>			
<u>CRITICAL LOW</u> -15C	<u>CRITICAL HIGH</u> +54C	<u>ACT</u> -15C	<u>APT ISA</u> +14.87C

CRITICAL TEMPERATURE REMARKS:
AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 987 HIGH TEMP 1260.



"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	LPV, LNAV		
34:1			
151 TREE (06-042452) 373113.43N/1223040.53W (36.21)		138 TREE (06-134792) 373113.99N/1223041.63W (20.21)	
147 TREE (06-042484) 373117.87N/1223042.18W (19.89)		143 TREE (06-042488) 373119.27N/1223043.20W (11.2)	
132 TREE (06-042455) 373117.32N/1223039.59W (10.28)		148 TREE (06-042490) 373123.54N/1223041.56W (9.57)	
127 TREE (06-042482) 373120.54N/1223035.59W (4.75)		135 TREE (06-042486) 373117.64N/1223044.71W (4.3)	
132 TREE (06-042485) 373122.53N/1223037.54W (2.27)			

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

REMOTE ALTIMETER NOTE: USE SAN FRANCISCO INTERNATIONAL ALTIMETER SETTING AND INCREASE ALL DA 28 FEET, AND ALL MDA 40 FEET. INCREASE LPV CATS A/B/C/D VISIBILITY TO 1 SM AND INCREASE LNAV CATS C/D TO 1 7/8 AND CIRCLING CAT C INCREASE TO 1 7/8. VDP AND BARO-VNAV NA. ALTEDRNATE MINIMUMS NA.

PDF: REMOVED OBST #5 FROM LNAV/VNAV AND LNAV MISSED APPROACH.

ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.35
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	136.89
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	220
DISTANCE FROM	THLD	TO 1500FT POINT	4.87
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.13
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	136.89
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	220

THRESHOLD
COORDINATES (IF STR-IN) 373100.99N/1223019.00W

ARP COORDINATES 373048.40N/1223004.20W

RUNWAY APCH END
AND DIST FURTHEST FROM ARP RUNWAY 30 DISTANCE 0.29 NM

FAF
COORDINATES 373434.44N/1223429.78W

FIX NAME
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.
THLD DISPLACED 751.882FT, ACTUAL COORDINATES: 373106.42N/1223025.37W.



AIRPORT
HALF MOON BAY

AIRPORT ID
KHAF

PROCEDURE NAME
RNAV (GPS) RWY 12

AMDT NO.
1

CITY
HALF MOON BAY

STATE
CA

AIRPORT ELEVATION
66

FACILITY
RNAV

PART E: PREPARED BY

NAME
DAVID DANNER (JOSEPH HILLEY)

OFFICE
AJV-5421

DATE
10/10/2018

TITLE
AERONAUTICAL INFORMATION SPECIALIST