

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> MOFFETT FEDERAL AFLD	<u>AIRPORT ID</u> KNUQ	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 14L	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> MOUNTAIN VIEW	<u>STATE</u> CA
<u>AIRPORT ELEVATION</u> 37	<u>TDZE</u> 6	<u>SUPERSEDED</u> RNAV (GPS) RWY 14L	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 07/19/2018	<u>MAG VAR</u> 16E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> 06/20/2019	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 1980

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>
OAK VOR/DME		PEYIC		TF	FB	1.00	129.74	3.35	3200
PEYIC	IAF	EVOCU		TF	FB	1.00	141.63	5.00	2600
EVOCU	IF	NIRYI		TF	FB	1.00	141.65	6.09	1700
NIRYI	FAF	RW14L	MAP	TF	FO	0.30	141.69	5.15	
RW14L	MAP	MSL		CA			141.69		
MSL		PEYIC		DF	FO	1.00			3200

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW14L

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 500 THEN CLIMBING LEFT TURN TO 3200 DIRECT PEYIC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. PROFILE STARTS AT PEYIC

3. FAC:

141.69

FAF: NIRYI

DIST FAF TO MAP: 5.15

DIST FAF TO THLD: 5.15

4. MIN ALT: PEYIC 3200, EVOCU 2600, NIRYI 1700

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

250 HAT: 0.62

GS ANT:

6. MIN GP INCPT:

1700

GP ALT AT FAF : NIRYI 1700

OM:

MM:

IM:

7. GP ANGLE:

3.00

34:1: IS CLEAR

20:1: IS CLEAR

TCH: 53.2

8. MSA FROM: RW14L 5600

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 0°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT OAK VOR/DME ON V25 AND V87 NORTHWEST BOUND.

ADDITIONAL FLIGHT DATA:

CHART ARRIVAL HOLDING AT PEYIC: HOLD NW, RT, 141.63 INBOUND, 3200.
CHART CIRCLING ICON.
CHART VDP AT 1.12 NM TO RW14L*
*LNAV ONLY
WAAS CHANNEL #70442
REFERENCE PATH ID: W14A
CHART FAS OBST: 177 TRANSMISSION_LINE 372653N/1220438W.
CHART: 212 TRANSMISSION_LINE 373029N/1220503W.
LTP HAE: -31 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4

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	256	3/4	250	256	3/4	250	256	3/4	250	256	3/4	250			
LNAV/VNAV DA	326	7/8	320	326	7/8	320	326	7/8	320	326	7/8	320			
LNAV MDA	440	1	434	440	1	434	440	1 1/4	434	440	1 1/4	434			
CIRCLING	540	1	503	600	1	563	620	1 1/2	583	780	2 1/4	743			



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KNUQ
RUNWAY	RW14L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W14A
LTP/FTP LATITUDE	372544.1280N
LTP/FTP LONGITUDE	1220316.5940W
LTP/FTP ELLIPSOIDAL HEIGHT	-00310
FPAP LATITUDE	372419.9870N
FPAP LONGITUDE	1220233.3625W
THRESHOLD CROSSING HEIGHT (TCH)	00053.2
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	AF8A9426

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+00016
FPAP ORTHOMETRIC HEIGHT	+00016



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

<u>AIRPORT</u> MOFFETT FEDERAL AFLD	<u>AIRPORT ID</u> KNUQ	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 14L	<u>AMDT NO.</u> 1	<u>CITY</u> MOUNTAIN VIEW	<u>STATE</u> CA	<u>AIRPORT ELEVATION</u> 37	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM
OAK VOR/DME

TO
PEYIC

<u>RNP</u>	<u>DISTANCE</u> 3.35	<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.CONTROL_TOWER (06-021928)	374310.07N/1221319.06W		257	20	3	1A	2000				AT943	3200
2.TERRAIN	374254.00N/1221003.00W		29 (0)								AS1500	1500

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM
PEYIC

TO
EVOCU

<u>RNP</u>	<u>DISTANCE</u> 5.00	<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>
3.TOWER (06-000090)	373756.00N/1220753.00W	237	20	10	1B	1000				AT1363	2600
4.TERRAIN	373756.00N/1220753.00W	237 (200)								AS1500	1700

COMPUTATIONS

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

SEGMENT REMARKS:



FINAL: LNAV/VNAV

FROM

NIRYI

TO

RW14L

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	5.15		DA		320							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
8.TRANSMISSION_LINE (06-026030)	372647.53N/1220256.50W		178	50	20	2C	161				SA-33 AC20	326

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

NIRYI

TO

RW14L

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	5.15		RW14L		434							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9.TRANSMISSION_LINE (06-021667)	372653.05N/1220438.35W		177	20	3	1A	250					440

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH : LPV

FROM

DA

TO

PEYIC

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
							67				
<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>
							ASC				3200
10.AAO	372851.00N/1215418.00W	657	164	98	4E	1000					1700
11.TERRAIN	372851.00N/1215418.00W	456 (500)								AS1500	2000

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/VNAV

FROM

DA

TO

PEYIC

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 231					
<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>
								ASC				3200
10.AAO	372851.00N/1215418.00W		657	164	98	4E	1000					1700
11.TERRAIN	372851.00N/1215418.00W		456 (500)								AS1500	2000

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

RW14L

TO

PEYIC

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
							340				
<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>
							ASC				3200
10.AAO	372851.00N/1215418.00W	657	164	98	4E	1000					1700
11.TERRAIN	372851.00N/1215418.00W	456 (500)								AS1500	2000

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											
12.BLDG (06-055790)	372442.65N/1220312.46W	1.30	503	240	20	3	1A	300			540
CATEGORY B											
13.POLE (06-056845)	372306.72N/1220410.16W	1.81	563	281	50	20	2C	300			600
CATEGORY C											
14.TOWER (06-026005)	372213.35N/1220224.01W	2.84	583	301	20	10	1B	300			620
CATEGORY D											
15.AAO	372209.00N/1220624.00W	3.70	743	476	50	20	2C	300			780

CIRCLING REMARKS:



MSA

CENTER
RW14L

RADIUS
25

<u>SECTOR</u>	<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>BEARING</u>	<u>DISTANCE</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
360-360	AAO	372054.00N/1213748.00W	087	20.9	4521	164	98	4E	1000			5600

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

TAA NOT DEVELOPED PER FPT.

100 FT USED FOR VEGETATION PER FPT.

SUITABLE OBSTACLES (CONTROLLED TRAVERSE_WAY) THAT PENETRATE THE VGS AREA:
19 TRAVERSE WAY (06-134992) 372544.16N-1220319.18W (7.77).
19 TRAVERSE WAY (06-055599) 372545.73N-1220315.28W (6.81).
19 TRAVERSE WAY (06-055600) 372544.79N-1220318.17W (6.79).

NOTE: 19 MSL TRAVERSE WAY (06-055473) AT 372548.36N/1220320.05W IS A 34:1 PENETRATION. HOWEVER TRAVERSE WAY ACCESS IS CONTROLLED BY MOFFETT TOWER; NO HELICOPTER NOTE REQUIRED.

25 DEGREE BANK ANGLE USED IN MISSED SEGMENT TO AVOID HIGH TERRAIN NORTHEAST OF THE AIRPORT.



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AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
MOFFETT FEDERAL AFLD	KNUQ	RNAV (GPS) RWY 14L	1	MOUNTAIN VIEW	CA	37	RNAV

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	2.96
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	157.69
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	23
DISTANCE FROM	THLD	TO 1500FT POINT	4.75
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.76
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	157.69
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	23

THRESHOLD
COORDINATES
(IF STR-IN)

372544.13N/1220316.59W

ARP COORDINATES

372458.11N/1220256.87W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

FAF
COORDINATES

373030.62N/1220544.01W

FIX NAME
COORDINATES

REMARKS

QUALITY

18

CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

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FACILITY
RNAV

