

**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 ID</u> KHII	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 32	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>CITY</u> LAKE HAVASU CITY	<u>STATE</u> AZ		
<u>AIRPORT ELEVATION</u> 783	<u>TDZE</u> 783	<u>SUPERSEDED</u> RNAV (GPS) RWY 32	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 01/15/2009	<u>MAG VAR</u> 13E	<u>EPOCH YEAR</u> 1985
<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

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
PKE VORTAC		UCAYI		TF	FB	1.00	057.90	22.91	5000
MEMPE		TASGE		TF	FB	1.00	155.31	20.50	7000
TASGE	IAF	OGSOE		TF	FB	1.00	226.81	8.00	4400
UCAYI	IAF	OGSOE		TF	FB	1.00	001.71	8.00	4400
OGSOE	IF	HODKI		TF	FB	1.00	316.73	6.11	3500
HODKI	FAF	REKVE/3.50 NM TO RW32		TF	FB	0.30	316.70	4.69	
REKVE/3.50 NM TO RW32		RW32	MAP	TF	FO	0.30	316.70	3.50	
RW32	MAP	1183 MSL		CA			316.70		
1183 MSL		JADUV		DF	FB	1.00			
JADUV		GORSY		TF	FO	1.00	306.70	20.84	6300

MISSED APPROACH

MAP:

LPV: DA
LNAV: RW32

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 6300 DIRECT JADUV AND TRACK 306.70 TO GORSY AND HOLD, CONTINUE CLIMB-IN-HOLD TO 6300.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



CHANGES - REASONS

- TERMINAL ROUTES, ADDED FINAL AND MISSED APPROACH SEGMENTS - 8260.19H.
- MISSED APPROACH, REMOVED WORD "VIA" - 8260.19H.
- PROFILE VIEW, LINE 7, ADDED "20:1 IS CLEAR" - 8260.19H.
- REPLACED "DME/DME RNP-0.3 NA" NOTE WITH PBN REQUIREMENTS NOTE "RNP APCH" - 8260.19H.
- HELICOPTER NOTE, REWORDED TO NA VISIBILITY BELOW 3/4 SM - 34:1 PENETRATIONS ONLY.
- BACKUP ALTIMETER NOTES, MOVED TO FORM 8260-9 - 8260.19H.
- ADDITIONAL FLIGHT DATA, ADDED "CHART CIRCLING ICON" - NEW CIRCLING AREAS APPLIED.
- ADDITIONAL FLIGHT DATA, ADDED LTP HAE - 8260.19H.
- ADDED ALTERNATE MINIMUMS - LOCAL WEATHER NOW ON WMSCR.
- MINIMUMS, LOWERED LPV VIS FROM 1 3/4 TO 1 3/8 - USED CURRENT VISIBILITY TABLES.
- MINIMUMS, LOWERED LNAV CAT D VIS FROM 2 3/4 TO 2 1/2 - USED CURRENT VISIBILITY TABLES.
- MINIMUMS, CIRCLING CAT A, INCREASED VIS FROM 1 TO 1 1/4 - USED CURRENT VISIBILITY TABLES.
- MINIMUMS, CIRCLING CAT C, INCREASED MDA/VIS/HAA FROM 1660/2 1/2/877 TO 1800/3/1017 - NEW CIRCLING AREAS APPLIED.
- MINIMUMS, CIRCLING CAT D, INCREASED MDA/VIS/HAA FROM 1660/2 3/4/877 TO 2180/3/1397 - NEW CIRCLING AREAS APPLIED.
- CRC REMAINDER CHANGED FROM 52C2061D TO 7298B92D - LTP, LTP ELLIPSOIDAL HEIGHT AND FPAP UPDATED.

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:** ZLA, LAKE HAVASU CITY

FLIGHT CHECKED BY	<i>Digitally signed by</i> JASON KRETSCHMER	OFFICE	DATE
	Oct 16, 2020		

DEVELOPED BY	<i>Digitally signed by</i> RUSSELL ROSLEWSKI	OFFICE	DATE
RUSSELL ROSLEWSKI	Oct 07, 2020	AJV-A421	09/09/2020

APPROVED BY	<i>Digitally signed by</i> JASON KRETSCHMER	OFFICE	DATE	TITLE
MARLON ROBINSON	Oct 16, 2020	AJV-A420		MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KHII
RUNWAY	RW32
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W32A
LTP/FTP LATITUDE	343341.9075N
LTP/FTP LONGITUDE	1142105.6235W
LTP/FTP ELLIPSOIDAL HEIGHT	+02079
FPAP LATITUDE	343458.9170N
FPAP LONGITUDE	1142200.1615W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0312
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	7298B92D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+02386
FPAP ORTHOMETRIC HEIGHT	+02386



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INTERMEDIATE

FROM
OGSOE

TO
HODKI

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
6.11

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9.AAO	341952.08N/1141608.40W	2959	50	20	2C	500					3500
10.TERRAIN	341952.08N/1141608.40W	2759 (2800)								AS0	2800

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LPV

FROM
HODKI

TO
RW32

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
8.19
DA 482

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
11.POLE (KHIIT069)	343313.28N/1142039.29W	885	50	20	2C		34:1			MA204 AC20	1265

COMPUTATIONS

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

SEGMENT REMARKS:



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MISSED APPROACH : LPV

FROM DA **TO** GORSY

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
977

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
14.50' ANTENNA	343517.00N/1142112.00W	1498	250	50	4D		ASC				6300
15.AAO	344118.52N/1143127.29W	2599	50	20	2C	1000					3600
16.TERRAIN	344118.00N/1143130.00W	2369 (2400)								AS1500	3900

COMPUTATIONS

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

SEGMENT REMARKS:

MISSED APPROACH : LNAV

FROM RW32 **TO** GORSY

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
1410

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
14.50' ANTENNA	343517.00N/1142112.00W	1498	250	50	4D		ASC				6300
15.AAO	344118.52N/1143127.29W	2599	50	20	2C	1000					3600
16.TERRAIN	344118.00N/1143130.00W	2369 (2400)								AS1500	3900

COMPUTATIONS

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

SEGMENT REMARKS:



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CIRCLING ALL CATS CAT A CAT B CAT C CAT D CAT E NOT AUTHORIZED

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>RADIUS</u>	<u>HAA</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>
CATEGORY A											
17.POLE (04-021327)	343313.28N/1142039.29W	1.30	877	885	50	20	2C	300		SI	1660
CATEGORY B											
18.VEGETATION (04-064457)	343222.93N/1141949.25W	1.83	877	947	20	3	1A	300		SI	1660
CATEGORY C											
19.TERRAIN (04-025194)	343713.54N/1142304.50W	2.88	1017	1489	50	20	2C	300			1800
CATEGORY D											
20.AAO	343804.58N/1142407.66W	3.80	1397	1865	50	20	2C	300			2180

CIRCLING REMARKS:

MSA

CENTER
RW32

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	344616.50N/1135059.20W	050	27.8	7269	1000	3	6A	1000			8300

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



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PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
LOS ANGELES ARTCC, PRC FSS

<u>WX SERVICE</u> AWOS-3	<u>LOCATION</u> KHII	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KHII	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
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<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KEED	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KEED	<u>DISTANCE</u> 17.57	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 69
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WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KHII 782.8, KEED 983.1
RA = 68.46.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
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<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW14 - MIRL (PCL), REIL (PCL), PAPI-4L	NPI-G	
RW32 - MIRL (PCL), REIL (PCL), PAPI-4L	NPI-G	

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 782.8	<u>TCH</u> 50.0	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 35.7
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:



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"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	LPV, LNAV		
34:1			
890 POLE (04-021328) 343313.29N/1142035.91W (2.72)	885 POLE (04-021327) 343313.28N/1142039.29W (1.90)		

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

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

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

TAA NOT DEVELOPED AS PER ATC COORDINATION LETTER.

MAXIMUM VEGETATION HEIGHT: 5 FT PER FPT FOR RNAV (GPS) RWY 14 PROCEDURE.

LNAV/VNAV NOT DEVELOPED ON ORIGINAL PROCEDURE: MISSED APPROACH PENETRATION ADJUSTMENTS PLACED DA WITHIN 1 NM OF PFAF

CHANGED OBSTACLE #14 FROM 30 FOOT BUSH TO 50 FOOT ANTENNA, CHANGED ACCURACY CODE OF OBSTACLE FROM 2C TO 4D AND ALTITUDE FROM 1448 MSL TO 1498, AS DIRECTED BY FLIGHT CHECK.

FOR BACKUP ALTIMETER USE:
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE NEEDLES ALTIMETER SETTING: INCREASE DA TO 1334 FEET AND ALL VISIBILITIES 1/4 SM; INCREASE ALL MDAS 80 FEET AND ALL VISIBILITIES 1/2 SM.
 CHART NOTE: VDP NA WHEN USING NEEDLES ALTIMETER SETTING.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



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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	4.52
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.59
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	329.70
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1400
DISTANCE FROM	THLD	TO 1500FT POINT	6.99
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.89
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	329.70
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1400

**THRESHOLD
COORDINATES** 343341.91N/1142105.62W
(IF STR-IN)

ARP COORDINATES 343416.05N/1142129.80W

**RUNWAY APCH END
AND DIST FURTHEST
FROM ARP** RUNWAY 14 DISTANCE 0.66 NM

**FAF
COORDINATES** 342637.11N/1141605.47W

**FIX NAME
COORDINATES** IF OGSOE: 342119.91N/1141221.98W

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED



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PART E: PREPARED BY

NAME
RUSSELL ROSLEWSKI

OFFICE
AJV-A421

DATE
09/09/2020

TITLE
AERONAUTICAL INFORMATION SPECIALIST

