

**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> KHEF	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 16L	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> WASHINGTON	<u>STATE</u> DC		
<u>AIRPORT ELEVATION</u> 192	<u>TDZE</u> 192	<u>SUPERSEDED</u> RNAV (GPS) RWY 16L	<u>ORIGINAL/AMENDMENT</u> 1D	<u>DATED</u> 01/30/2020	<u>MAG VAR</u> 10W	<u>EPOCH YEAR</u> 2000
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 29 DECEMBER 2022	<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>
CSN VORTAC		SAVVV		TF	FB	1.00	021.29	14.07	3000
SAVVV	IAF	GIGFY		TF	FB	1.00	090.43	8.00	3000
MANNE	IAF	GIGFY		TF	FB	1.00	171.00	7.01	3000
GIGFY	IF	DUDNG		TF	FB	1.00	160.66	3.08	2600
DUDNG		DORGE		TF	FB	1.00	160.39	2.21	2200
DORGE	FAF	JUKIK/3.40 NM TO RW16L		TF	FB	0.30	160.57	2.72	
JUKIK/3.40 NM TO RW16L		RW16L	MAP	TF	FO	0.30	160.57	3.40	
RW16L	MAP	700 MSL		CA			160.57		700
700 MSL		CSN VORTAC		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW16L

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 700 THEN CLIMBING RIGHT TURN TO 3000 DIRECT CSN VORTAC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
22
CHECKED

PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)

2. PROFILE STARTS AT GIGEY

3. FAF: 160.57 FAF: DORGE DIST FAF TO MAP: 6.12 DIST FAF TO THLD: 6.12

4. MIN ALT: GIGEY 3000, DUDNG 2600, DORGE 2200, JUKIK/3.40 NM TO RW16L 1320

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 250 HAT: 0.60 GS ANT:

6. MIN GP INCPT: 2200 GP ALT AT PFAF : DORGE 2200 OM: MM: IM:

7. GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 57.8

8. MSA FROM: RW16L 3400

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT MANNE ON V4 NORTHWEST BOUND.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV CAT C/D VISIBILITY TO 1 3/8 SM.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT CSN VORTAC ON V453 NORTHWEST BOUND.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON
HOLD SW, LT, 027.00 INBOUND.
CHART FAS OBST: 393 TREE (51-036919) 384545N/0773209W.
CHART 453 TOWER 384637N/0773224W.
609 AAO 384822N/0773528W.
CHART R-6608A, B, & C.
CHART VDP AT 1.29 NM TO RW16L.
WAAS CHANNEL # 70302
REFERENCE PATH ID: W16A
LTP HAE: 26.6 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4, NA WHEN LOCAL WEATHER NOT AVAILABLE.



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	442	1/2	250	442	1/2	250	442	1/2	250	442	1/2	250			
LNAV/VNAV DA	635	7/8	443	635	7/8	443	635	7/8	443	635	7/8	443			
LNAV MDA	660	1/2	468	660	1/2	468	660	1	468	660	1	468			
CIRCLING	720	1	528	740	1	548	840	1 3/4	648	880	2 1/4	688			

CHANGES - REASONS

1. REMOVED IAF SHYLO TRANSITION - PER FPT/ATC REQUEST.
2. COURSE FROM GIGEY TO DUDNG CHANGED FROM 160.57 TO 160.66 AND DISTANCE FROM 2.64 TO 3.08 NM; COURSE FROM DUDNG TO DORGE CHANGED FROM 160.56 TO 160.39 AND DISTANCE FROM 2.64 TO 2.21 NM - INTERMEDIATE STD FIX MOVED TO SUPPORT ATC VECTORING.
3. DECREASED LNAV/VNAV VISIBILITY ALL CATS FROM 1 SM TO 7/8 SM - 8260.3E TABLE 3-3-1.
4. UPDATED PBN REQUIREMENTS NOTE: RNP APCH, ADDED GPS - IAW 8260.19I.
5. REMOVED PBN EQUIPMENT REQUIREMENTS NOTE "RADAR REQUIRED" - RADAR ISN'T REQUIRED ON RNP APCH-GPS APPROACHES.
6. REMOVED "LNAV ONLY" AND THE ASTERISK AT "1.29 NM TO RW16L" - 8260.19I.
7. ADDED CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT CSN VORTAC ON V453 NORTHWEST BOUND - GREATER THAN 90 DEGREE TURN.
8. CHANGED AFD NOTE FROM "CHART R6608A, B, C" TO "CHART R-6608A, B, C" - 8260.19I.
9. CRC REMAINDER CHANGED FROM B3FCAB67 TO 269EF6F4 - FPAP LAT/LONGS CHANGED.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZDC, IAD APP CON, HEF ATCT, HEF AMGR, VA DEPT OF AVIATION

FLIGHT CHECKED BY

STEPHEN BAUER

Digitally signed by
CASIMIR L TABAKA

OFFICE

FPO

DATE

08/22/2022

DEVELOPED BY

LORRI DOWNEY

Digitally signed by
LORRI F DOWNEY

Aug 29, 2022

OFFICE

AJV-A432

DATE

06/16/2022

APPROVED BY

CASIMIR TABAKA

Jul 27, 2022

Digitally signed by
CASIMIR L TABAKA

Aug 01, 2022

OFFICE

AJV-A430

DATE

07/20/2022

TITLE
MANAGER

QUALITY
22
CHECKED

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KHEF
RUNWAY	RW16L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W16A
LTP/FTP LATITUDE	384339.7200N
LTP/FTP LONGITUDE	0773107.5860W
LTP/FTP ELLIPSOIDAL HEIGHT	+00266
FPAP LATITUDE	384222.0035N
FPAP LONGITUDE	0773011.7340W
THRESHOLD CROSSING HEIGHT (TCH)	00057.8
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0864
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	269EF6F4

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00586
FPAP ORTHOMETRIC HEIGHT	+00586

