

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> 2W6	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 11	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> LEONARDTOWN	<u>STATE</u> MD
<u>AIRPORT ELEVATION</u> 142	<u>TDZE</u> 142	<u>SUPERSEDED</u> RNAV (GPS) RWY 11	<u>ORIGINAL/AMENDMENT</u> 2	<u>DATED</u> 03/29/2018
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 26 DECEMBER 2024	<u>REQUIRED EFFECTIVE DATE</u> 12/26/2024	<u>MAG VAR</u> 10W
				<u>EPOCH YEAR</u> 1995
				<u>CANCEL/SUSPEND</u>

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
LEKVE	IF/IAF	ONAFE		TF	FB	1.00	112.17	4.74	1800
ONAFE	FAF	DUYEV/3.26 NM TO RW11		TF	FB	0.30	112.25	1.82	
DUYEV/3.26 NM TO RW11		RW11	MAP	TF	FO	0.30	112.25	3.26	
RW11	MAP	620 MSL		CA			112.25		620
620 MSL		GOFER		DF	FO	1.00			2000

MISSED APPROACH

MAP:

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW11

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 620 THEN CLIMBING LEFT TURN TO 2000 DIRECT GOFER AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. HOLD NW LEKVE, RT, 148.00 INBOUND, 2000 FT. IN LIEU OF PT (IAF), MAX 6000.					
3. FAC: 112.25	FAF: ONAFE		DIST FAF TO MAP: 5.08	DIST FAF TO THLD: 5.08	
4. MIN ALT: LEKVE 2000, ONAFE 1800, DUYEV/3.26 NM TO RW11 1220					
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	277 HAT: 0.74	GS ANT:
6. MIN GP INCPT: 1800	GP ALT AT PFAF: ONAFE 1800			OM:	MM:
7. GP ANGLE: 3.00	34:1: IS NOT CLEAR	20:1: IS CLEAR	TCH: 42.3		IM:
8. MSA FROM: RW11 2100					



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING RWY 29 NA AT NIGHT.  
CHART NOTE: RWY 11 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 PLANVIEW NOTE: WASHINGTON, DC SFRA, CTC POTOMAC APP CON.

ADDITIONAL FLIGHT DATA:

HOLD NE, RT, 225.99 INBOUND.  
CHART FAS OBST: 274 TREE (24-052976) 381839N/0763346W.  
CHART 398 TOWER (24-000047) 381913N/0764009W.  
338 AAO 381912N/0763800W.  
CHART R-4007.  
CHART R-6611A.  
CHART R-6613A.  
CHART WASHINGTON, DC METROPOLITAN SFRA.  
CHART VDP AT 1.12 NM TO RW11.  
WAAS CHANNEL # 70502  
REFERENCE PATH ID: W11A  
LTP HAE: 8.7 M

MINIMUMS:

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

ALTERNATE: NA ☒

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	419	1	277	419	1	277	419	1	277	419	1	277			
LNAV/VNAV DA	503	1	361	503	1	361	503	1	361	503	1	361			
LNAV MDA	540	1	398	540	1	398	540	1 1/8	398	540	1 1/8	398			
CIRCLING	660	1	518	660	1	518	840	2	698	840	2 1/4	698			

CHANGES - REASONS

1. TERMINAL ROUTES: CHANGED LEKVE TO ONAFE (FAF) COURSE/DISTANCE FROM 112.8/4.93 TO 112.17/4.74 - FAF RELOCATED 0.19NM EAST DUE TO RUNWAY EXTENSION.
2. TERMINAL ROUTES: CHANGED ONAFE TO STEPDOWN FIX (SDF) DUYEV COURSE/DISTANCE CHANGED FROM 112.24/1.79 TO 112.25/1.82 - BOTH FAF AND SDF LOCATIONS MOVED DUE TO RUNWAY EXTENSION.
3. TERMINAL ROUTES: DECREASED STEPDOWN FIX (SDF) DUYEV COURSE/DISTANCE TO MAP FROM 112.24/3.30 TO 112.25/3.26 - SDF LOCATION MOVED 0.15NM WEST DUE TO RUNWAY EXTENSION.
4. TERMINAL ROUTES: CHANGED MAP TO CA COURSE FROM 112.24 TO 112.25 - COURSE REALIGNED DUE TO RUNWAY EXTENSION.
5. PROFILE LINE 2: ADDED MAX 6000 - IAW 8260.19J, PARA 8-6-7 (B) (2).
6. PROFILE LINE 3: FAC CHANGED FROM 112.24 TO 112.25 - FAF RELOCATED DUE TO RUNWAY EXTENSION.
7. PROFILE LINE 3: DECREASED DIST FAF TO MAP AND DIST FAF TO THLD FROM 5.09 TO 5.08 - FAF RELOCATED 0.19NM EAST DUE TO RUNWAY EXTENSION.
8. PROFILE LINE 4: REMOVED ASTERISK FROM SDF MIN ALTITUDE (1220); ADDITIONAL FLIGHT DATA: REMOVED \*LNAV ONLY - NOT REQUIRED.
9. PROFILE LINE 5: CHANGED 277 HAT FROM 0.75 TO 0.74 – AIRPORT’S 1200 FT. RUNWAY EXTENSION DECREASED 0.01 NM FROM FAF TO LTP DISTANCE.
10. PROFILE LINE 7: ADDED “20:1: IS CLEAR” IAW 8260.19J, 8-6-7 (G) (3); NO OBSTACLE PENETRATION ON 20:1 OBSTACLE IDENTIFICATION SURFACE.
11. PROFILE LINE 7: UPDATED TCH FROM 37.4 TO 42.3 - THRESHOLD RELOCATED DUE TO AIRPORT’S 1200 FT. RUNWAY EXTENSION.
12. PBN REQUIREMENTS NOTES: DELETED “CHART NOTE: DME/DME RNP-0.3 NA” AND ADDED “RNP APCH – GPS” TO PBN REQUIREMENTS NOTE - IAW 8260.58C TABLE 1-2-1.
13. NOTES: ADDED “CIRCLING RWY 29 NA AT NIGHT” - DUE TO RWY 29 20:1 OBSTACLE IDENTIFICATION SURFACE PENETRATION.
14. NOTES: CHANGED “WASHINGTON DC ADIZ” TO “WASHINGTON, DC SFRA” - IAW JO 7110.65AA.
15. ADDITIONAL FLIGHT DATA: UPDATED CHART NOTE FROM “FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F)” TO “FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.” - IAW 8260.19J, PARA 8-6-10 (R).
16. ADDITIONAL FLIGHT DATA: DELETED “269 TREE (24-032380) 381839N/0763343W” AND ADDED “274 TREE (24-052976) 381839N/0763346W” - NEW CONTROLLING FAS OBSTACLE; ANNOTATED IAW 8260.19J, PARA 8-6-10 (C).
17. ADDITIONAL FLIGHT DATA: UPDATED 7:1 OBSTACLE FROM “338 AAO 381918N/0763745W” TO “338 AAO 381913N/0764009W” - NEW TARGETS CALCULATION USING MITRE 3DEP TERRAIN EVALUATION SOFTWARE; IAW 8260.19J, PARA 8-6-11 (C).
18. ADDITIONAL FLIGHT DATA: UPDATED “CHART: WASHINGTON DC METROPOLITAN AIZ” TO “CHART: WASHINGTON, DC METROPOLITAN SFRA” - IAW JO 7110.65AA.
19. ADDITIONAL FLIGHT DATA: UPDATED VDP FROM 1.07 NM TO 1.12 NM - DUE TO INCREASE IN TCH FROM 37.4 TO 42.3, AND LNAV MDA/HAT FROM 520/378 TO 540/398.
20. ADDITIONAL FLIGHT DATA: DELETED “CHART CIRCLING ICON” – NOT REQUIRED; IAW AJV-A MEMORANDUM 270, “REVISED CIRCLING MANEUVERING AREA CRITERIA IMPLEMENTATION PLAN,” DATED 30/09/2021.
21. REDUCED LTP HAE FROM 9.1M TO 8.7M - AIRPORT’S 1200 FT. RUNWAY EXTENSION RELOCATED LTP.
22. MINIMUMS: CHANGED ALTERNATE MINIMA FROM “CAT D 800-2 1/4” TO “NA” - PARA 8-6-12 (B). FIELD AWOS WX REPORTING IS NOT ON WMSCR.
23. MINIMUMS: INCREASED LNAV MDA/HAT FROM 520/378 TO 540/398; INCREASED CATS C/D VISIBILITY FROM “1” TO “1 1/8” - DUE TO NEW CONTROLLING OBSTACLE.
24. FAS DATA: LTP/FTP LATITUDE/LONGITUDE CHANGED FROM “381859.6580N/0763325.8505W” TO “381902.1925N/ 0763340.5635W” - THRESHOLD RELOCATED DUE TO AIRPORT’S 1200 FT. RUNWAY EXTENSION.
25. FAS DATA: UPDATED LTP/FTP ELLIPSOIDAL HEIGHT FROM “+00091” TO “+00087” - NEW FAS DATA CALCULATIONS DUE TO AIRPORT’S 1200 FT. RUNWAY EXTENSION.
26. FAS DATA: FPAP LATITUDE/LONGITUDE CHANGED FROM “381840.6275N/0763135.2500W” TO “381843.1525N/ 0763149.9645W” - THRESHOLD RELOCATED DUE TO AIRPORT’S 1200 FT. RUNWAY EXTENSION.
27. FAS DATA: LENGTH OFFSET CHANGED FROM 1488 TO 1120 - DISTANCE BETWEEN THE DER AND THE FPAP DECREASED BY 368 FT DUE TO AIRPORT’S 1200 FT. RUNWAY EXTENSION.
28. FAS DATA: CRC REMAINDER CHANGED FROM “06EE4D2C” TO “0D91F389” – FPAP RELOCATED DUE TO RUNWAY EXTENSION.
29. FAS DATA: LTP/FPAP ORTHOMETRIC HEIGHT CHANGED FROM “+00432” TO “+00429” - NEW FAS DATA CALCULATIONS DUE TO AIRPORT’S 1200 FT. RUNWAY EXTENSION.

08/28/24: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 05/20/2024.

1. REQUIRED EFFECTIVE DATE CHANGED FROM 9/5/2024 TO 12/26/2024.

COORDINATED WITH:

A4A

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ALPA

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AOPA

☒

APA

☐

HAI

☐

NBAA

☒

OTHER:

ZDC, NHK APP CON, MD DEPT OF AVN, AMGR

FLIGHT CHECKED BY

PENDING

ERIC N SUSKI

OFFICE

DATE

Digitally signed by

May 23, 2024

DEVELOPED BY

PARNELL PRASSADA

PARNELL R PRASSADA

OFFICE

DATE

Digitally signed by

May 20, 2024

APPROVED BY

ERIC N SUSKI

OFFICE

DATE

TITLE

MANAGER

ERIC N SUSKI

May 23, 2024

AJV-A431

29

QUALITY

CHECKED

AIRPORT ID  
2W6

PROCEDURE NAME  
RNAV (GPS) RWY 11

ORIGINAL/AMENDMENT  
3

CITY  
LEONARDTOWN

STATE  
MD

**FAS DATA BLOCK INFORMATION**

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	2W6
RUNWAY	RW11
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W11A
LTP/FTP LATITUDE	381902.1925N
LTP/FTP LONGITUDE	0763340.5635W
LTP/FTP ELLIPSOIDAL HEIGHT	+00087
FPAP LATITUDE	381843.1525N
FPAP LONGITUDE	0763149.9645W
THRESHOLD CROSSING HEIGHT (TCH)	00042.3
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1120
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER	0D91F389
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**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00429
FPAP ORTHOMETRIC HEIGHT	+00429

