

**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>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>		
IAD	RNAV (GPS) Y RWY 19R	1	WASHINGTON	DC		
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
312	278	RNAV (GPS) RWY 19R	ORIG-C	07/15/2021	10W	2000
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
RNAV		16 MAY 2024	ROUTINE			

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>
DUBBV	IAF	HUGGZ		TF	FB	1.00	101.90	4.50	5000
HUGGZ		NOGGL		TF	FB	1.00	108.57	3.50	4000
NOGGL		ROWYN		TF	FB	1.00	157.06	4.78	4000
RUBNZ	IAF	RAGGY		TF	FB	1.00	190.64	3.73	7000
RAGGY		RIECE		TF	FB	1.00	190.65	3.09	6000
RIECE	IAF	RAYZE		TF	FB	1.00	190.64	3.45	5000
RAYZE		ROWYN		TF	FB	1.00	190.65	3.05	4000
ROWYN	IAF	REKKN		TF	FB	1.00	190.64	3.27	3000
REKKN	IF	RNDON		TF	FB	1.00	190.66	3.16	2000
RNDON		MULKY		TF	FB	1.00	190.61	1.58	1500
MULKY	FAF	RW19R	MAP	TF	FO	0.30	190.64	3.67	
RW19R	MAP	800 MSL		CA			190.64		800
800 MSL		AMOSS		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW19R

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 3000 DIRECT AMOSS AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
35
CHECKED

PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	PROFILE STARTS AT RUBNZ														
3.	FAC:	190.64	FAF:	MULKY	DIST FAF TO MAP:	3.67	DIST FAF TO THLD:	3.67							
4.	MIN ALT:	RUBNZ 8000, RAGGY 7000, RIECE 6000, RAYZE 5000, ROWYN 4000, REKKN 3000, RNDON 2000, MULKY 1500													
5.	DIST TO THLD FROM OM:		MM:		IM:		150 HAT:		200 HAT:	0.46	GS ANT:				
6.	MIN GP INCPT:	1500	GP ALT AT PFAF:	MULKY 1500			OM:		MM:		IM:				
7.	GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR	TCH:	55.1							
8.	MSA FROM:	RW19R 3500													

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -13°C OR ABOVE 54°C.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART PROFILE NOTE: VGSi AND RNAV GLIDEPATH NOT COINCIDENT (VGSi ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS.

ADDITIONAL FLIGHT DATA:

HOLD E, RT, 263.51 INBOUND.
CHART FAS OBST: 459 TOWER (51-001528) 385956N/0772845W.
500 AAO 390142N/0772924W.
CHART VDP AT 1.17 NM TO RW19R.
WAAS CHANNEL # 86709
REFERENCE PATH ID: W19D
CHART AT OR ABOVE 5000 AT DUBBV.
CHART AT OR ABOVE 8000 AT RUBNZ.
LTP HAE: 52.4 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 900-2 3/4

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	478	1800	200	478	1800	200	478	1800	200	478	1800	200			
LNAV/VNAV DA	708	4000	430	708	4000	430	708	4000	430	708	4000	430			
LNAV MDA	720	2400	442	720	2400	442	720	4500	442	720	4500	442			
CIRCLING	940	1	628	940	1	628	940	1 3/4	628	1180	2 3/4	868			



CHANGES - REASONS

1. APPROACH NAME CHANGED FROM RNAV (GPS) RWY 19R TO RNAV (GPS) Y RWY 19R. – PER 8260.19I COMPLIANCE.
2. TERMINAL ROUTES. THIS IS A COMPLETE REDESIGN. THE ONLY FIX THAT REMAINS IS THE FAF MULKY. INITIAL BEEZY TO LAUGH, INTERMEDIATE LAUGH TO MULKY MISSED APPROACH HIMRA TO OLIVR HAVE BEEN REMOVED. SEE TERMINAL ROUTES FOR NEW ROUTING. – NEW REDESIGN PER FPT/ATC.
3. FEEDER ROUTES DRUZZ TO CRVER, SHNON TO CRVER, CRVER TO BEEZY, MULRR TO BEEZY HAVE BEEN REMOVED AND WILL NOT BE REPLACED. – PER FPT/ATC REDESIGN.
4. MISSED APPROACH INSTRUCTIONS CHANGED FROM CLIMB TO 5000 DIRECT HIMRA AND ON 280 TRACK TO OLIVR AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000. TO CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 3000 DIRECT AMOSS AND HOLD. - FPT/ATC REDISIGN.
5. PROFILE LINE 1 REMOVED "NA" FROM PT. – 8260.19I COMPLIANCE.
6. PROFILE LINE 2 CHANGED FROM PROFILE STARTS AT LAUGH TO RUBNZ
7. PROFILE LINE 3 CHANGED FROM FAC: 190.65, DIST FAF TO MAP: 4.25, THLD: 4.25 TO 190.64, 3.67, 3.67. – FAF WAS MOVED TO ALIGN WITH ILS AIRNAV DATA.
8. PROFILE LINE 4 CHANGED FROM LAUGH 3000, MULKY 1700 TO RUBNZ 8000, RAGGY 7000, RIECE 6000, RAYZE 5000, ROWYN 4000, REKKN 3000, RNDON 2000, MULKY 1500. – NEW REDESIGN PER FPT/ATC.
9. PROFILE LINE 5 ADDED 200 HAT: 0.46. – 8260.19I COMPLIANCE.
10. PROFILE LINE 6 CHANGED FROM MIN GS INCPT: 1700, GS ALT AT: MULKY 1700 TO 1500, MULKY 1500. – NEW REDESIGN PER FPT/ATC.
11. PROFILE LINE 7 ADDED 20:1 CLEAR. – 8260.19I COMPLIANCE.
12. PROFILE LINE 8 CHANGED FROM MSA 3400 TO 3500. – NEW EVALUATION AND CONTROLLING OBSTACLE.
13. CHART PLANVIEW NOTE REMOVED PROCEDURE NA FOR ARRIVALS AT MULRR ON V139-143 NORTHEAST BOUND. – NEW REDESIGN PER FPT/ATC APPROACH NO LONGER TIES TO ANY AIRWAY.
14. CHART PLANVIEW NOTE REMOVED PROCEDURE NA FOR ARRIVALS AT DRUZZ ON V4 WESTBOUND. – NEW REDESIGN PER FPT/ATC APPROACH NO LONGER TIES TO ANY AIRWAY.
15. CHART NOTE CHANGED FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 48°C. TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -13°C OR ABOVE 54°C. – NEW HISTORICAL TEMPS USED.
16. CHART NOTE REMOVED SIMULTANEOUS APPROACH AUTHORIZED WITH ILS OR LOC RWY 19L, ILS RWY 19L CAT (II). – 8260.19I, JO 7110.308 COMPLIANCE.
17. CHART NOTE ADDED SIMULTANEOUS APPROACH AUTHORIZED. – 8260.19I, JO 7110.308 COMPLIANCE.
18. CHART NOTE REPLACED USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS WITH USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS. – 8260.19I, JO 7110.308 COMPLIANCE.
19. PBN REQUIREMENT NOTE CHANGED FROM RNP APCH TO RNP APCH-GPS. – 8260.19I COMPLIANCE.
20. ADDITIONAL FLIGHT DATA CHANGED HOLDING FROM HOLD W, RT, 092.00 INBOUND TO HOLD E, RT, 263.51 INBOUND. – NEW REDESIGN OF MISSED APPROACH PER FPT/ATC.
21. ADDITIONAL FLIGHT DATA CHANGED CHART FAS OBST 376 TREE 385912N/0772831W, 461 POLE 385957N/0772845W TO FAS OBST: 459 TOWER (51-001528) 385956N/0772845W. – NEW CONTROLLING OBSTACLE AND REMOVED LNAV/VNAV FAS NO LONGER REQUIRED BY CRITERIA.
22. ADDITIONAL FLIGHT DATA ADDED 7:1 AAO 500 AAO 390142N/0772924W. – 8260.19I COMPLIANCE.
23. ADDITIONAL FLIGHT DATA ADDED LTP HAE: 52.4 M – 8260.19I COMPLIANCE.
24. ADDITIONAL FLIGHT DATA REMOVED DISTANCE TO THLD FROM 200 HAT: 0.46 NM.
25. ADDITIONAL FLIGHT DATA REMOVED *LNAV ONLY FROM CHART VDP AT 1.17 MILES TO RW19R*. – 8260.19I COMPLIANCE.
26. ADDITIONAL FLIGHT DATA REMOVED CHART TDZ AND CENTERLINE LIGHTS. – LIGHTS ARE DEPICTED IN AIRPORT DIAGRAM.
27. ADDITIONAL FLIGHT DATA ADDED AT OR ABOVE AT DUBBV. - FPT/ATC REQUEST.
28. ADDITIONAL FLIGHT DATA ADDED AT OR ABOVE AT RUBNZ. - FPT/ATC REQUEST.
29. MINIMUMS LNAV/VNAV ALL CATS CHANGED FROM DA/HAT/VIS; 714/436/5000 TO 708/430/4000. - NEW EVALUATION CONTROLLING OBSTACLE (PENDING) IDENTIFIED BY OBSTACLE EVALUATION TEAM.
30. MINIMUMS LNAV VISIBILITY CATS C/D CHANGED FROM 4000/5000 TO 4500/4500. - NEW EVALUATION.
31. AIRPORT ELEVATION CHANGED FROM 313 TO 312. - DATA PULL, NEW SURVEY.
32. CIRCLING CATS A/B/C HAA CHANGED FROM 627 TO 628. - AIRPORT ELEVATION CHANGED FROM 313 TO 312.
33. FAS DATA LTP/FTP LATITUDE/LONGITUDE CHANGED FROM 385814.7845N, 0772827.9825W TO 385814.7840N, 0772827.9840W. NEW EVALUATION/SURVEY.
34. FAS DATA FPAP LATITUDE/LONGITUDE CHANGED FROM 385641.7800N, 0772829.3300W TO 385641.8790N, 0772829.3165W. - NEW EVALUATION/SURVEY.
35. CRC REMAINDER CHANGED FROM 10BOFDE TO 6F3D1313. – LTP AND FPAP CHANGED.
36. CAT D CIRCLING MDA/HAA CHANGED FROM 1060/747 TO 1180/868. - CANCELS T-NOTAM 3/1787.

QUALITY
35
CHECKED

COORDINATED WITH:

A4A

☒

ALPA

☒

AOPA

☒

APA

☒

HAI

☐

NBAA

☒

OTHER:

PCT APP CON, IAD ATCT, APT MANGR

FLIGHT CHECKED BY

ANTHONY D VALLERA

Digitally signed by
CASIMIR L TABAKA
Mar 08, 2024

OFFICE

FPO

DATE

03/07/2024

DEVELOPED BY

JOHN KEEFER

Digitally signed by
JOHN A KEEFER
Jan 18, 2024

OFFICE

AJV-A432

DATE

12/06/2023

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by
CASIMIR L TABAKA
Feb 06, 2024

OFFICE

AJV-A430

DATE

TITLE
MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD

OPERATION TYPE
SBAS SERVICE PROVIDER IDENTIFIER
AIRPORT IDENTIFIER
RUNWAY
APPROACH PERFORMANCE DESIGNATOR
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR
REFERENCE PATH IDENTIFIER (APPROACH ID)
LTP/FTP LATITUDE
LTP/FTP LONGITUDE
LTP/FTP ELLIPSOIDAL HEIGHT
FPAP LATITUDE
FPAP LONGITUDE
THRESHOLD CROSSING HEIGHT (TCH)
TCH UNITS SELECTOR (METERS OR FEET USED)
GLIDEPATH ANGLE (GPA)
COURSE WIDTH AT THRESHOLD
LENGTH OFFSET
HORIZONTAL ALERT LIMIT (HAL)
VERTICAL ALERT LIMIT (VAL)

DATA

0
0
KIAD
RW19R
0
Y
0
W19D
385814.7840N
0772827.9840W
+00524
385641.8790N
0772829.3165W
00055.1
F
03.00
106.75
0000
40.0
35.0

CRC REMAINDER

6F3D1313

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE
LTP ORTHOMETRIC HEIGHT
FPAP ORTHOMETRIC HEIGHT

K6
+00844
+00844

