

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, 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 in feet RVR.													
TERMINAL ROUTES										MISSED APPROACH							
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: (CFSDN) CLIMB TO 420 THEN CLIMBING RIGHT TURN TO 1800 DIRECT DCA NDB AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, LT, 007.00 INBOUND. FAS OBST: 539 AAO 385515N/0770524W. CHART P-56 A AND B. CHART P-73. DISTANCE TO THLD FROM 380 HAT: 1.02 NM. CHART VDP AT 2.33 NM TO CFSDN* *LNAV ONLY. WAAS CHANNEL # 70737 REFERENCE PATH ID: W15A CHART CIRCLING ICON. FICTITIOUS THRESHOLD POINT (CFSDN) DO NOT CHART. FAC CROSSES RWY C/L EXTENDED 5000 FT FROM THLD. CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 2.79 DEGREES. LTP HAE: -27.8 M							
AML VOR/DME (IAF)		NIPEE (TF) (FB) (RNP 1.00)		078.81 / 11.41				2500									
NIPEE (IF)		AVOLE (TF) (FB) (RNP 1.00)		137.94 / 6.72				2000									
AVOLE (FAF)		(CFSDN) (MAP) (TF) (FO) (RNP 0.30)		150.80 / 6.06													
(CFSDN) (MAP)		420 MSL (CA)		150.80				420									
420 MSL		DCA NDB (DF) (FO) (RNP 1.00)						1800									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT NIPEE 3. FAC: 150.80 FAF: AVOLE DIST FAF TO MAP: 6.06 THLD: 6.06 4. MIN. ALT: NIPEE 2500, AVOLE 2000 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2000 GS ALT AT: AVOLE 2000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 55.0 34:1 IS NOT CLEAR 8. MSA FROM: CFSDN 2600										MAG VAR: 11W EPOCH YEAR: 2020							
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD @					
CATEGORY =====>		A			B			C			D			E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA		
LPV DA	394	1 1/4	380	394	1 1/4	380	394	1 1/4	380	394	1 1/4	380					
LNAV/VNAV DA	745	2 1/2	731	745	2 1/2	731	745	2 1/2	731	745	2 1/2	731					
LNAV MDA	800	1	786	800	1 1/4	786	800	2 1/2	786	800	2 1/2	786					
CIRCLING	800	1	786	800	1 1/4	786	840	2 1/2	826	900	3	886					
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -9C (16F) OR ABOVE 54C (130F). @ CAT C 900-2 1/2, CAT D 900-3 CHART NOTE: CIRCLING NA NORTHEAST OF RWY 15-33. CHART NOTE: RWY 15 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. (CONTINUED ON PAGE 2)																	
CITY AND STATE		ELEVATION: 14 TDZE: 14		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 15, ORIG-A						SUP:					
WASHINGTON, DC		AIRPORT NAME: RONALD REAGAN WASHINGTON NATIONAL										AMDT: ORIG					
												DATED 08/20/2015					



ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE <div>ROUTINE</div>	
COORDINATED WITH:					
ATA <div><input checked="" type="checkbox"/></div>		AAT <div><input type="checkbox"/></div>		ALPA <div><input checked="" type="checkbox"/></div>	
APA <div><input checked="" type="checkbox"/></div>		AOPA <div><input checked="" type="checkbox"/></div>		NBAA <div><input checked="" type="checkbox"/></div>	
OTHER (specify) <div><input checked="" type="checkbox"/></div>		ZDC, POTOMAC APP CON, KDCA ATCT, ARPT MGR			
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME: <div>Digitally signed by DEANNA M. FIELDS</div> <div>DEANNA M. FIELDS</div> <div>Nov 16, 2017</div>				FIFO AJV-5432	DATE: 09/19/2017
APPROVED BY					
NAME: <div>PATRICK J. MULQUEEN</div> <div>MANAGER</div>				FIFO AJV-5430	DATE:
CHANGES:					
<div>1. COURSE AML VOR/DME TO NIPEE CHANGED FROM 076.81 TO 078.81.</div> <div>2. COURSE NIPEE TO AVOLE CHANGED FROM 135.94 TO 137.94.</div> <div>3. COURSE AVOLE TO (CFSDN) CHANGED FROM 148.80 TO 150. 80</div> <div>4. COURSE (CFSDN) TO 420 MSL CHANGED FROM 148.80 TO 150.80.</div> <div>5. FAC CHANGED FROM 148.80 TO 150.80.</div> <div>6. MISSED APPROACH HOLDING INBOUND COURSE CHANGED FROM 005.00 TO 007.00</div> <div>7. HELICOPTER CHART NOTE CHANGED FROM HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED TO RWY 15 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.</div> <div>FAS DATA:</div> <div>1. LENGTH OFFSET CHANGED FROM 1168 TO 0000.</div> <div>2. CRC REMAINDER CHANGED FROM FC77B00A TO B2E0B3A0.</div>					
REASONS:					
<div>1-6. AIRPORT MAGVAR CHANGED FROM W09/1985 TO W11/2020.</div> <div>7. CRITERIA NEW WORDING.</div> <div>FAS DATA:</div> <div>1. PROCEDURE BUILT OFFSET TO THE RWY.</div> <div>2. THE OFFSET LENGHT CHANGED.</div>					

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

NOTES, (CONT.):

CHART PROFILE NOTE: VGSi AND RNAV GLIDEPATH NOT COINCIDENT (VGSi ANGLE {ANGLE}/TCH {FEET}).

CHART PLANVIEW NOTE: NOTE: PROHIBITED AREA (P-56) 1.5 NM NORTH OF DCA - AVOID SURFACE TO 18000 MSL.

CHART PLANVIEW NOTE: LIMIT MISSED APPROACH AIRSPEED TO 210 KIAS UNTIL REACHING 420 FT MSL.

QUALITY
16
CHECKED

CITY AND STATE

WASHINGTON, DC

ELEVATION: 14

TDZE: 14

AIRPORT NAME:

RONALD REAGAN WASHINGTON NATIONAL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 15, ORIG-A

SUP:

AMDT: ORIG

DATED: 08/20/2015

ALL AFFECTED PROCEDURES REVIEWED?		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
<input type="checkbox"/> YES <input type="checkbox"/> NO					
COORDINATED WITH:					
ATA	AAT	ALPA	APA	AOPA	NBAA OTHER (specify)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> _____
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES:					
REASONS:					

**STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KDCA
RUNWAY	RW15
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W15A
LTP/FTP LATITUDE	385141.7340N
LTP/FTP LONGITUDE	0770233.5150W
LTP/FTP ELLIPSOIDAL HEIGHT	-00278
FPAP LATITUDE	385033.5600N
FPAP LONGITUDE	0770119.9790W
THRESHOLD CROSSING HEIGHT (TCH)	00055.0
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

<u>CRC REMAINDER</u>	B2E0B3A0
----------------------	----------

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00043
FPAP ORTHOMETRIC HEIGHT	+00043

QUALITY
16
CHECKED

CITY AND STATE WASHINGTON, DC	ELEVATION: 14 AIRPORT NAME: RONALD REAGAN WASHINGTON NATIONAL	TDZE: 14 	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 15, ORIG-A	SUP:
					AMDT: ORIG
					DATED: 08/20/2015

ALL AFFECTED PROCEDURES REVIEWED?		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
<input type="checkbox"/> YES <input type="checkbox"/> NO					
COORDINATED WITH:					
ATA	AAT	ALPA	APA	AOPA	NBAA OTHER (specify)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> _____
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES:					
REASONS:					

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD	
--	--

PART - A OBSTRUCTION DATA

[illegible]

PART B - SUPPLEMENTAL DATA										PART C - REMARKS: PRECIPITOUS TERRAIN EVALUATION COMPLETED. VGSI DATA: 3.00/38.0 ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED. CAT A: 1.30NM CAT B: 1.81NM CAT C: 2.88NM CAT D: 3.76NM NO ADDITIONAL AIRSPACE REQUIRED. BACK UP ALTIMETER SOURCE NOT UTILIZED DUE TO REDUNDANT SOURCES AT KDCA. AVERAGE COLD TEMPERATURE BASED ON 5 YEARS USED (2010-2014) CRITICAL TEMPERATURES CRITICAL LOW CRITICAL HIGH ACT APT ISA DELTA ISA LOW -9C (16F) +54C (130F) -9C +14.97C -23.97C CRITICAL LOW TEMP BASED ON ACT DESCENT RATE: STANDARD TEMP 954 HIGH TEMP 1114 TEMPERATURE LIMITS, DELTA ISA LOW, AND DESCENT VALUES DERIVED FROM AFS-400 CALCULATOR ORDER 8260.3, VOLUME 1, "VISUAL PORTION OF FINAL" (34:1) PENETRATIONS: 470 BLDG (51-022602) 385343.00N/0770415.00W (31.66) 468 BLDG (51-020609) 385346.42N/0770418.17W (17.10) 67 TREE [WIP] (KDCAT000651) 385149.84N/0770249.90W (16.24) 105 POLE (11-020082) 385206.23N/0770253.18W (10.87) 68 TREE (51-020568) 385154.76N/0770246.68W (10.16) 102 POLE (KDCAT0095) 385206.25N/0770252.98W (8.10) 151 ANT [WIP] (KDCAT000771) 385213.84N/0770315.50W (7.38) 56 TREE [WIP] (KDCAT000647) 385148.92N/0770249.96W (7.33) 142 BLDG (51-020182) 385210.86N/0770315.72W (5.11) 62 TREE [WIP] (KDCAT000665) 385154.68N/0770246.27W (4.92) 23 VERTICAL POINT [(KDCAT000592) 385142.91N/0770239.87W (2.78) 59 TREE [WIP] (KDCAT000661) 385153.25N/0770247.39W (3.72) 25 RD (N) [WIP] (KDCAT000603) 385142.66N/0770241.84W (2.59) 23 FENCE (11-020064) 385142.89N/0770240.06W (2.56) 23 VERTICAL POINT (KDCAT000596) 385143.51N/0770239.28W (2.20) 148 ANT [WIP] (KDCAT000774) 385214.33N/0770316.43W (1.91) 53 POLE (11-020074) 385149.92N/0770250.10W (1.77) 22 RD (N) [WIP] (KDCAT000593) 385142.35N/0770240.83W (1.75) 23 VERTICAL POINT [(KDCAT000598) 385143.96N/0770238.85W (1.74) 25 RD (N) [WIP] (KDCAT000604) 385143.42N/0770241.20W (1.70) 23 VERTICAL POINT [(KDCAT000600) 385144.43N/0770238.38W (1.29) 27 TREE [WIP] (KDCAT000615) 385145.00N/0770240.43W (1.05) 20 VERTICAL POINT [(KDCAT000590) CONT.			
1. COMMUNICATIONS WITH:		2. WEATHER SERVICE			3. ALTIMETER SETTING								
DCA TOWER POTOMAC APP CON ZDC ARTCC			N W S	OTHER: ASOS		SOURCE:KDCA							
			F A A			DISTANCE:							
			A / C			HOURS REMOTE OPERATION:							
SATISFACTORY ON:							LOCATION: KDCA				ADJUSTMENT: 0		
4. MONITOR STATUS	PRIMARY NAVAID:												
		MONITOR POINT:											
			HRS	CAT 1									
	OPTN:	CAT 3											
5. APPROACH & RUNWAY LIGHTING	X	ALSF-2 01											
		(S) SALS											
	X	MALSF 19											
	X	HIRL 01, 15, 19, 33											
	X	MIRL 04, 22											
	X	REIL 04, 15, 22, 33											
	X	TDZ 01											
	X	C/L 01, 19											
	X	OTHER (SPECIFY) PAPI-4R 01 VASI-12 19 PAPI-4L 04, 15, 22, 33 LDIN 19											
6. RUNWAY MARKINGS		BASIC											
		ALL WEATHER		PIR-G 01, 19									
		INSTRUMENT		NPI-G 04, 15, 22, 33									
7. RUNWAY VISUAL RANGE		APPROACH		01, 19									
		MIDFIELD											
		ROLL OUT		01, 19									
8. GLIDE PATH		GP ANGLE: 3.00				ELEV RWY THRESHOLD:14.0							
		DISTANCE FROM RWY:				ELEV GP ANTENNA:							
						THRESHOLD CROSSING HEIGHT:55.0							
9. FINAL APPROACH COURSE AIMING			RUNWAY THRESHOLD 5000 FT. FROM THRESHOLD										
		X	ON CENTERLINE FT. FROM CENTERLINE										
10. WAIVERS: NONE													
PART D - PREPARED BY: DEANNA M. FIELDS							DATE: 09/19/2017						
TITLE: AERONAUTICAL INFORMATION SPECIALIST							OFFICE: AJV-5432						



STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD		
--	--	--

PART - A OBSTRUCTION DATA

[illegible]

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.								
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL						
CATEGORY B	1.5 NM		450							
CATEGORY C	1.7 NM		450							
CATEGORY D	2.3 NM		550							
CATEGORY E	4.5 NM		550							

5. MINIMUM SAFE ALTITUDES				PRIMARY NAVAID:					
SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
CITY AND STATE		ELEVATION: 14		FACILITY		PROCEDURE AND AMENDMENT NO:		REGION	
WASHINGTON, DC		AIRPORT NAME: RONALD REAGAN WASHINGTON NATIONAL		RNAV		RNAV (GPS) RWY 15, ORIG-A		AEA	

PART B - SUPPLEMENTAL DATA										PART C - REMARKS: CONTINUED. 385142.04N/0770240.48W (0.98) 23 RD (N) [WIP] (KDCAT000602) 385143.42N/0770240.45W (0.76) 22 FENCE (11-020084) 385144.51N/0770238.31W (0.20) 27 TREE [WIP] (KDCAT000618) 385146.48N/0770238.67W (0.03) OBSTACLES #1, #3, AND #9 UTILIZE IPDS PROVIDED ACCURACY. TAA NOT DEVELOPED PER ATC AND FPT REQUEST. PROCEDURE DESIGN REQUESTED BY ATC TO REMAIN AS CLOSE AS POSSIBLE TO THE VOR RWY 15 APPROACH. PROCEDURE OFFSET TO ENSURE CLEARANCE FROM P-56A.		
1. COMMUNICATIONS WITH:			2. WEATHER SERVICE			3. ALTIMETER SETTING						
SATISFACTORY ON:				N W S	OTHER:		SOURCE:					
				F A A			DISTANCE:					
				A / C			HOURS REMOTE OPERATION:					
	V H F		U H F		H F	LOCATION:			ADJUSTMENT:			
4. MONITOR STATUS		PRIMARY NAVAID:										
		MONITOR POINT:										
		HRS	CAT 1									
		OPTN:	CAT 3									
5. APPROACH & RUNWAY LIGHTING										ALS		
										(S) SALS		
										MAL S		
										HIRL		
										MIRL		
										REIL		
										TDZ		
										C/LINE		
		OTHER (SPECIFY)										
6. RUNWAY MARKINGS		BASIC										
		ALL WEATHER										
		INSTRUMENT										
7. RUNWAY VISUAL RANGE		APPROACH										
		MIDFIELD										
		ROLL OUT										
8. GLIDE PATH		GP ANGLE:				ELEV RWY THRESHOLD:						
		DISTANCE FROM RWY:				ELEV GP ANTENNA:						
						THRESHOLD CROSSING HEIGHT:						
9. FINAL APPROACH COURSE AIMING				RUNWAY THRESHOLD					FT. FROM THRESHOLD			
				ON CENTERLINE					FT. FROM CENTERLINE			
10. WAIVERS:												
PART D - PREPARED BY:										DATE:		
TITLE:										OFFICE:		

