

<b>RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33</b>						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.										
<b>TERMINAL ROUTES</b>											<b>MISSED APPROACH</b>					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW33  CLIMB TO 2200 DIRECT GTN NDB AND HOLD, CONTINUE CLIMB-IN -HOLD TO 2200.  ADDITIONAL FLIGHT DATA: HOLD NW, RT, 145.00 INBOUND. FAS OBST: 469 AAO 384221N/0765833W CHART P-56 A AND B. CHART P-73. DISTANCE TO THLD FROM 250 HAT: 0.62 NM. CHART VDP AT 2.09 MILES TO RW33* *LNAV ONLY. WAAS CHANNEL # 90123 REFERENCE PATH ID: W33A CHART CIRCLING ICON. LTP HAE: -29 M						
JANIV (IF)		CROFT (FB)		331.73 / 6.00				1400								
CROFT (FAF)		RW33 (MAP) (FO)		331.68 / 4.19												
RW33 (MAP)		263 MSL		331.68				2200								
263 MSL		GTN NDB (FO)														
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT JANIV 3. FAC: <u>331.68</u> FAF: <u>CROFT</u> DIST FAF TO MAP: <u>4.19</u> THLD: <u>4.19</u> 4. MIN. ALT: <u>JANIV 2100, CROFT 1400</u> 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: <u>1400</u> GS ALT AT: <u>CROFT 1400</u> OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>55.0</u> 34:1 IS CLEAR 8. MSA FROM: <u>RW33 2500</u>																
											MAG VAR: <b>9W</b> EPOCH YEAR: <b>1985</b>					
<b>MINIMUMS</b>																
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	263	3/4	250	263	3/4	250	263	3/4	250	263	3/4	250				
LNAV/VNAV DA	609	2	596	609	2	596	609	2	596	609	2	596				
LNAV MDA	720	1	707	720	1	707	720	2	707	720	2	707				
CIRCLING	720	1	706	720	1	706	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: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: RADAR REQUIRED. (SEE FORM 8260-10)																
CITY AND STATE		ELEVATION: 14 TDZE: 13		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:						
WASHINGTON, DC		AIRPORT NAME:		RONALD REAGAN WASHINGTON NATIONAL		RNAV (GPS) RWY 33, AMDT 1 20 AUGUST 2015				AMDT: ORIG-A						
										DATED 05/05/2011						



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

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**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.**

QUALITY  
14  
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CITY AND STATE  
**WASHINGTON, DC**

**ELEVATION: 14**      **TDZE: 13**  
AIRPORT NAME:  
**RONALD REAGAN WASHINGTON NATIONAL**

FACILITY  
IDENTIFIER:  
**RNAV**

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
**RNAV (GPS) RWY 33, AMDT 1**  
20 AUGUST 2015

SUP:  
AMDT: **ORIG-A**  
DATED: **05/05/2011**

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

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**FAS DATA BLOCK INFORMATION**

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KDCA
RUNWAY	RW33
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33A
LTP/FTP LATITUDE	385059.2945N
LTP/FTP LONGITUDE	0770155.9525W
LTP/FTP ELLIPSOIDAL HEIGHT	-00290
FPAP LATITUDE	385210.1855N
FPAP LONGITUDE	0770305.1665W
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	1168
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 96B5C4D1

**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00031
FPAP ORTHOMETRIC HEIGHT	+00031

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CITY AND STATE  WASHINGTON, DC	ELEVATION: 14 AIRPORT NAME:  RONALD REAGAN WASHINGTON NATIONAL	TDZE: 13	FACILITY IDENTIFIER:  RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  RNAV (GPS) RWY 33, AMDT 1  20 AUGUST 2015	SUP:
					AMDT: ORIG-A
					DATED: 05/05/2011

<p align="center"><b>U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION</b></p> <p align="center"><b><u>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</u></b></p> <p align="center"><b>FLIGHT STANDARDS SERVICES - FAR PART 97.33</b></p>	<p>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.</p>
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ARINC PACKET - 424-18 - RNAV (GPS)

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KDCAK6FR33	R	010JANIVK6EA0E	I	IF					18000		A	JS
SUSAP	KDCAK6FR33	R	020CROFTK6EA1E	F	051TF		33170060	+	01400		RW33	K6PGA	JS
SUSAP	KDCAK6FR33	R	020CROFTK6EA2WALPV			ALNAV/VNAV	ALNAV						JS
SUSAP	KDCAK6FR33	R	030RW33	K6PGOGY	M	031TF	33170042		00065		-300		A
SUSAP	KDCAK6FR33	R	040		0	M	CA	3317	+	00263			A
SUSAP	KDCAK6FR33	R	050GTN	K6DB0NY		DF		+	02200				A
SUSAP	KDCAK6FR33	R	060GTN	K6DB0NE	R	HM	14500040	+	02200				A

[illegible][illegible][illegible]

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ELEVATION: 14	TDZE: 13
AIRPORT NAME: RONALD REAGAN WASHINGTON NATIONAL	

FACILITY  
IDENTIFIER:

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PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:  
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RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - FAR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		JANIV	010	FACF	IF		FB					
		CROFT	020	FAF	TF		FB	0.5	331.7 (322.7T)	006.0	AA 01400	
		RW33	030	MAP	TF		FO	0.3	331.7 (322.7T)	004.2	AT 00065	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		331.7 (322.7T)		AA 00263	
		GTN	050		DF		FO				AA 02200	
		GTN	060		HM	R	FO		145.0 (136.0T)	004.0	AA 02200	
POINT DATA		WAYPOINT	LAT IN SECS			LONG IN SECS		LAT IN MINS		LONG IN MINS		
		GTN	N385547.64			W0770727.18		N3855.794		W07707.453		
		CROFT	N384739.15			W0765840.81		N3847.653		W07658.680		
		JANIV	N384252.47			W0765401.98		N3842.875		W07654.033		
		RW33	N385059.29			W0770155.95		N3850.988		W07701.933		
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW33	00010		55							

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	AIRPORT NAME: <b>RONALD REAGAN WASHINGTON NATIONAL</b>		<b>RNAV</b>	<b>RNAV (GPS) RWY 33, AMDT 1</b>	AMDT: <b>ORIG-A</b>
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