

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.											
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW33					
JANIV (IF)		CROFT (TF) (FB) (RNP 1.00)		333.73 / 6.00				1400		CLIMB TO 2200 DIRECT GTN NDB AND HOLD, CONTINUE CLIMB-IN -HOLD TO 2200.					
CROFT (FAF)		RW33 (MAP) (TF) (FO) (RNP 0.30)		333.68 / 4.19											
RW33 (MAP)		263 MSL (CA)		333.68											
263 MSL		GTN NDB (DF) (FO) (RNP 1.00)						2200		ADDITIONAL FLIGHT DATA: HOLD NW, RT, 147.00 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 NM TO RW33* *LNAV ONLY. WAAS CHANNEL # 90123 REFERENCE PATH ID: W33A CHART CIRCLING ICON. LTP HAE: -29 M					
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)															
2. PROFILE STARTS AT JANIV															
3. FAC: 333.68 FAF: CROFT DIST FAF TO MAP: 4.19 THLD: 4.19										MAG VAR: 11W EPOCH YEAR: 2020					
4. MIN. ALT: JANIV 2100, CROFT 1400															
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____															
6. MIN GS INCPT: 1400 GS ALT AT: CROFT 1400 OM: _____ MM: _____ IM: _____															
7. GS ANGLE: 3.00 TCH: 55.0 34:1 IS CLEAR															
8. MSA FROM: RW33 2500															
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	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 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.															
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 1A						SUP: AMDT: 1 DATED 08/20/2015			

ALL AFFECTED PROCEDURES REVIEWED?  <input type="checkbox"/> YES <input type="checkbox"/> NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE  <b>ROUTINE</b>								
COORDINATED WITH: <table style="width:100%; margin-top: 5px;"> <tr> <td style="text-align: center;">ATA <input checked="" type="checkbox"/></td> <td style="text-align: center;">AAT <input type="checkbox"/></td> <td style="text-align: center;">ALPA <input checked="" type="checkbox"/></td> <td style="text-align: center;">APA <input checked="" type="checkbox"/></td> <td style="text-align: center;">AOPA <input checked="" type="checkbox"/></td> <td style="text-align: center;">NBAA <input checked="" type="checkbox"/></td> <td style="text-align: center;">OTHER (specify) <input checked="" type="checkbox"/> <b>ZDC, PCT TRACON, NYC FPO, ARPT MGR</b></td> </tr> </table>				ATA <input checked="" type="checkbox"/>	AAT <input type="checkbox"/>	ALPA <input checked="" type="checkbox"/>	APA <input checked="" type="checkbox"/>	AOPA <input checked="" type="checkbox"/>	NBAA <input checked="" type="checkbox"/>	OTHER (specify) <input checked="" type="checkbox"/> <b>ZDC, PCT TRACON, NYC FPO, ARPT MGR</b>
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FLIGHT CHECKED BY <i>Digitally signed by</i>										
NAME: <b>DEZ SILAGYI</b> <b>PROCESSED IAW FLIGHT TEAM (AJW-333) MEMO, MAY 30, 2017 SUBJECT: FLIGHT INSPECTION REVIEW NOT REQUIRED.</b> Jan 03, 2018		FIFO  <b>AJV-5432</b>	DATE:  <b>08/21/2015</b>							
DEVELOPED BY										
NAME: <i>Digitally signed by</i> <b>DEANNA M. FIELDS</b> <b>DEANNA M. FIELDS</b> Nov 15, 2017		FIFO  <b>AJV-5432</b>	DATE:  <b>10/10/2017</b>							
APPROVED BY										
NAME: <i>Digitally signed by</i> <b>PATRICK J. MULQUEEN</b> <b>DEZ SILAGYI</b> <b>MANAGER</b> Jan 03, 2018		FIFO  <b>AJV-5430</b>	DATE:							
CHANGES: <div style="margin-top: 10px;">           1. JANIV TO CROFT COURSE CHANGED FROM 331.73 TO 333.73            2. CROFT TO RW33 COURSE CHANGED FROM 331.68 TO 333.68.            3. RW33 TO 263 MSL COURSE CHANGED FROM 331.68 TO 333.68.            4. FAC CHANGED FROM 331.68 TO 333.68.            5. MISSED APPROACH HOLDING INBOUND COURSE CHANGED FROM 145.00 TO 147.00.            6. DELETED CHART PLANVIEW NOTE: RADAR REQUIRED.         </div>										
REASONS: <div style="margin-top: 10px;">           1-5. AIRPORT MAGVAR CHANGED FROM W09/1985 TO W11/2020.            6. NOT REQUIRED.         </div>										

**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

QUALITY  
16  
CHECKED

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 1A	SUP:
					AMDT: 1
					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		
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	PART - A OBSTRUCTION DATA
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[illegible]

PART B - SUPPLEMENTAL DATA										PART C - REMARKS:  PRECIPITOUS TERRAIN EVALUATION COMPLETED.  VGSI DATA: 3.00/39.1  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  SEE ATTACHED AIRSPACE LETTER.  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  TAA NOT UTILIZED AND PROCEDURE DESIGN PER ATC REQUEST TO KEEP AS IS AS MUCH AS POSSIBLE.  BACK UP ALTIMETER SOURCE NOT UTILIZED DUE TO REDUNDANT SOURCES AT KDCA.  LPV HAT OF 250 DUE TO NON-PRECISION MARKINGS.		
1. COMMUNICATIONS WITH:			2. WEATHER SERVICE			3. ALTIMETER SETTING						
ZDC ARTCC DCA TOWER PCT APP CON				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:10.3						
		DISTANCE FROM RWY:				ELEV GP ANTENNA:						
						THRESHOLD CROSSING HEIGHT:55.0						
9. FINAL APPROACH COURSE AIMING		X	RUNWAY THRESHOLD				FT. FROM THRESHOLD					
		X	ON CENTERLINE				FT. FROM CENTERLINE					
10. WAIVERS: NONE												
PART D - PREPARED BY: DEANNA M. FIELDS						DATE: 10/10/2017						
TITLE: AERONAUTICAL INFORMATION SPECIALIST						OFFICE: AJV-5432						

