

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.					
U.S. Department of Transportation Federal Aviation Administration									
TERMINAL ROUTES						MISSED APPROACH			
FROM	TO	COURSE AND DISTANCE	ALTITUDE	MAP: DA CLIMB TO 4000 VIA TRACK 190.65 TO BOPAC AND VIA TRACK 265.33 TO BLUES AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, RT, 076.21 INBOUND CHART FAS OBST: 430 TWR 385914N/0772651W DIST TO THLD FROM 468 HAT: 1.31 NM ROUTE TYPE: A, R ROUTE TYPE QUALIFIER 1: P ROUTE TYPE QUALIFIER 2: A, S #TCH: 322.7 MSL (DO NOT CHART) MAG VAR: 10W EPOCH YEAR: 2000					
SHNON (40E)	CRVER (TF) (FB) (RNP 1.00) (40E)	047.52/28.60	4100						
DRUZZ (40E)	CRVER (TF) (FB) (RNP 1.00) (40E)	084.11/32.72	4100						
CRVER (40E)	DIMKE (TF) (FB) (RNP 1.00) (40E) (43A)	100.51/10.61	4000						
MULRR (40E)	DIMKE (TF) (FB) (RNP 1.00) (40E) (43A)	205.97/20.09	4000						
DIMKE (IAF) (40E) (43A)	BOYDS (TF) (FB) (RNP 0.50) (40E) (41E)	190.65/6.02	4000						
TRING (IAF) (40E) (43A)	BGBRO (TF) (FB) (RNP 1.00) (40E)	023.78/9.85	4000						
BGBRO (40E)	BOYDS (RF) (FB) (RNP 0.50) (40E) (41E)	(3.75 NM RADIUS CCW ZAGIB) /12.64	4000						
CONTINUED ON PAGE 2									
1. PT <u>NA</u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. PROFILE STARTS AT <u>BOYDS</u> 3. FAC: <u>190.65</u> FAF: <u> </u> DIST FAF TO MAP: <u> </u> THLD: <u> </u> 4. MIN. ALT: <u>BOYDS 4000, CIREP 2500</u> 5. DIST TO THLD FROM OM: <u>3.66</u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: <u>1500</u> GS ALT AT: <u>FEMKO 1500</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>54.0# 34:1 IS CLEAR</u> 8. MSA FROM: <u>RW19C 3400</u>									
MINIMUMS									
TAKEOFF:	STANDARD	X	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
SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED									
RNP 0.30 DA	740	6000	468	740	6000	468	740	6000	468
NOTES: CHART NOTES: GPS REQUIRED. FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -14C (6F) OR ABOVE 47C (117F). FOR INOPERATIVE ALSF, INCREASE RNP 0.30 VISIBILITY TO 1 3/4. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. CONTINUED ON PAGE 2									
CITY AND STATE		ELEVATION: 312 TDZE: 272		FACILITY IDENTIFIER:		PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:		SUP:	
WASHINGTON, DC		WASHINGTON DULLES INTL		RNAV		22 OCT 2009 RNAV (RNP) Z RWY 19C, ORIG-B		AMDT: ORIG-A	
								DATE 06/05/2008	

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U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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FLIGHT STANDARDS SERVICES TITLE 14 CFR PART 97.33

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TERMINAL ROUTES (CONTINUED FROM PAGE 1):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
BOYDS (IF)(40E)(43I)	CIREP (TF) FB(RNP 0.50)(40E)(42S)	190.65/ 7.43	2500
CIREP (40E)(42S)	FEMKO (TF) (FB) (RNP 0.50) (40E) (43F)	190.65/3.18	1500
FEMKO (FAF)(40E)(43F)	RW19C (TF) (FO) (40G) (41Y) (43M)	190.65/3.66	
RW19C (MAP)(40G)(41Y)(43M)	BOPAC (TF) (FB) (RNP 1.00)(40E) (42M)	190.65/4.94	
BOPAC (40E)(42M)	BLUES (TF) (FO) (RNP 1.00) (40E) (41Y)	265.33/21.67	4000

NOTES CONT'D.

CHART PLANVIEW NOTE AT BGBRO: MAX 210 KIAS.

CHART PLANVIEW NOTE AT CRVER: MAX 220 KIAS.

CHART PLANVIEW NOTE AT TRING: RF REQUIRED.

CHART PLANVIEW NOTE AT SHNON, DRUZZ, MULRR, TRING: (RNP 0.50)

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ARINC FLIGHT INSPECTION SUMMARY - VERSION 424-18

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE
	DRUZZ	DRUZZ	010		IF		FB				
	DRUZZ	CRVER	020		TF		FB	1.0	084.1 (074T)	032.7	04100
	DRUZZ	DIMKE	030	IAF	TF		FB	1.0	100.5 (091T)	010.6	04000
	DRUZZ	BOYDS	040	IF	TF		FB	0.5	190.7 (181T)	006.0	04000
	MULRR	MULRR	010		IF		FB				
	MULRR	DIMKE	020	IAF	TF		FB	1.0	206.0 (196T)	020.1	04000
	MULRR	BOYDS	030	IF	TF		FB	0.5	190.7 (181T)	006.0	04000
	SHNON	SHNON	010		IF		FB				
	SHNON	CRVER	020		TF		FB	1.0	047.5 (038T)	028.6	04100
	SHNON	DIMKE	030	IAF	TF		FB	1.0	100.5 (091T)	010.6	04000
	SHNON	BOYDS	040	IF	TF		FB	0.5	190.7 (181T)	006.0	04000
	TRING	TRING	010	IAF	IF		FB				
	TRING	BGBRO	020		TF		FB	1.0	023.8 (014T)	009.9	04000
	TRING	BOYDS	030	IF	RF	L	FB	0.5		012.6	04000
		BOYDS	010	FACF	IF		FB				04000
		CIREP	011	SDF	TF		FB	0.5	190.7 (181T)	007.4	02500
		FEMKO	020	FAF	TF		FB	0.5	190.7 (181T)	003.2	01500
		RW19C	030	MAP	TF		FO	0.3	190.7 (181T)	003.7	00323 MAN

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE
	BOPAC	040		TF		FB	1.0	190.7 (181T)	004.9	
	BLUES	050		TF		FO	1.0	265.3 (255T)	021.7	04000
	BLUES	060		HM	R	FO	2.0	076.2 (066T)	005.0	04000

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	BGBRO	N391134.49	W0771750.59	N3911.575	W07717.843
	BLUES	N384745.11	W0775427.08	N3847.752	W07754.451
	BOPAC	N385317.86	W0772737.87	N3853.298	W07727.631
	BOYDS	N391231.01	W0772721.08	N3912.517	W07727.351
	CIREP	N390504.91	W0772727.59	N3905.082	W07727.460
	CRVER	N391839.24	W0774055.79	N3918.654	W07740.930
	DIMKE	N391832.78	W0772715.78	N3918.546	W07727.263
	DRUZZ	N390948.28	W0782128.71	N3909.805	W07821.479

CONT. ON PAGE 4

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ARINC FLIGHT INSPECTION SUMMARY - VERSION 424-18

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POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	FEMKO	N390154.08	W0772730.37	N3901.901	W07727.506
	MULRR	N393753.12	W0772008.51	N3937.885	W07720.142
	SHNON	N385559.19	W0780322.35	N3855.987	W07803.373
	TRING	N390200.00	W0772051.60	N3902.000	W07720.860
	ZAGIB	N391228.36	W0772231.63	N3912.473	W07722.527
	RW19C	N385814.30	W0772733.57	N3858.238	W07727.560

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW19C	00269	54

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3
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