

U.S. 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	T O	COURSE AND DISTANCE	ALTITUDE	MAP: DA								
SHNON (40E)	CRVER (TF) (FB) (RNP 1.00) (40E)	047.52/28.60	4100	CLIMB TO 2000 VIA TRACK 190.67 TO WAXIN AND HOLD.								
DRUZZ (40E)	CRVER (TF) (FB) (RNP 1.00) (40E)	084.11/32.72	4100									
CRVER (40E)	YYANG (TF) (FB) (RNP 1.00) (40E) (43A)	100.51/11.71	4000	ADDITIONAL FLIGHT DATA: HOLD S, LT, 010.67 INBOUND DIST TO THLD FROM 441 HAT: 1.24 NM ROUTE TYPE: A, R ROUTE TYPE QUALIFIER 1: P ROUTE TYPE QUALIFIER 2: A, S #TCH: 348.5 MSL (DO NOT CHART)								
MULRR (40E)	YYANG (TF) (FB) (RNP 1.00) (40E) (43A)	202.88/19.83	4000									
YYANG (IAF) (40E) (43A)	IZUMI (TF) (FB) (RNP 0.50) (40E) (41E)	190.67/6.65	3000									
TRING (IAF) (40E) (43A)	PERTE (TF) (FB) (RNP 1.00) (40E)	031.28/9.08	4000									
PERTE (40E)	IZUMI (RF) (FB) (RNP 0.50) (40E) (41E)	(3.75 NM RADIUS CCW ZEGVA) /13.13	3000									
CONTINUED ON PAGE 2												
1. PT <u>NA</u> SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)												
2. PROFILE STARTS AT IZUMI												
3. FAC: <u>190.67</u> FAF: _____ DIST FAF TO MAP: _____ THLD: _____												
4. MIN. ALT: <u>IZUMI 3000</u>												
5. DIST TO THLD FROM OM: <u>4.20</u> MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____												
6. MIN GS INCPT: <u>1700</u> GS ALT AT: <u>DOMSE 1700</u> OM: _____ MM: _____ IM: _____												
7. GS ANGLE: <u>3.00</u> TCH: <u>55.3# 34:1 IS CLEAR</u>												
8. MSA FROM: <u>RW19L 3400</u>				MAG VAR: 10W EPOCH YEAR: 2000								
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	DH/ MDA	VIS	HAT/HAA
SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED												
RNP 0.30 DA	743	5000	441	743	5000	441	743	5000	441	743	5000	441
NOTES: CHART NOTES: GPS REQUIRED. FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -14C (6F) OR ABOVE 47C (118F). FOR INOPERATIVE MALSR, INCREASE RNP 0.30 VISIBILITY TO 1 1/2. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. CONTINUED ON PAGE 2												
CITY AND STATE		ELEVATION: 312 TDZE: 302		FACILITY IDENTIFIER:		PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:			SUP:			
WASHINGTON, DC		WASHINGTON DULLES INTL		RNAV		22 OCT 2009			AMDT: ORIG			
						RNAV (RNP) Z RWY 19L, ORIG-A			DATE 08/30/2007			

QUALITY
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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TERMINAL ROUTES (CONTINUED FROM PAGE 1):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
IZUMI (IF)(40E)(43I)	DOMSE (TF)(FB)(RNP 0.50)(40E)(43F)	190.67/10.35	1700
DOMSE (FAF)(40E)(43F)	RW19L (TF)(FO)(40G)(41Y)(43M)	190.67/4.20	
RW19L (MAP)(40G)(41Y)(43M)	WAXIN (TF)(FO)(RNP 1.00)(40E)(41Y)(42M)	190.67/6.65	2000

NOTES CONT'D.

CHART PLANVIEW NOTE AT PERTE: MAX 210 KIAS

CHART PLANVIEW NOTE AT TRING: RF REQUIRED.

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

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312 TDZE:

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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	YYANG	030	IAF	TF		FB	1.0	100.5 (091T)	011.7	04000
	DRUZZ	IZUMI	040	IF	TF		FB	0.5	190.7 (181T)	006.7	03000
	MULRR	MULRR	010		IF		FB				
	MULRR	YYANG	020	IAF	TF		FB	1.0	202.9 (193T)	019.8	04000
	MULRR	IZUMI	030	IF	TF		FB	0.5	190.7 (181T)	006.7	03000
	SHNON	SHNON	010		IF		FB				
	SHNON	CRVER	020		TF		FB	1.0	047.5 (038T)	028.6	04100
	SHNON	YYANG	030	IAF	TF		FB	1.0	100.5 (091T)	011.7	04000
	SHNON	IZUMI	040	IF	TF		FB	0.5	190.7 (181T)	006.7	03000
	TRING	TRING	010	IAF	IF		FB				
	TRING	PERTE	020		TF		FB	1.0	031.3 (021T)	009.1	04000
	TRING	IZUMI	030	IF	RF	L	FB	0.5		013.1	03000
		IZUMI	010	FACF	IF		FB				03000
		DOMSE	020	FAF	TF		FB	0.3	190.7 (181T)	010.4	01700
		RW19L	030	MAP	TF		FO	0.3	190.7 (181T)	004.2	00348 MAN

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE
	WAXIN	040		TF		FO	1.0	190.7 (181T)	006.7	02000
	WAXIN	050		HM	L	FO	2.0	010.7 (001T)	004.0	02000

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CRVER	N391839.24	W0774055.79	N3918.654	W07740.930
	DOMSE	N390131.11	W0772605.75	N3901.519	W07726.096
	DRUZZ	N390948.28	W0782128.71	N3909.805	W07821.479
	IZUMI	N391152.58	W0772556.40	N3911.876	W07725.940
	MULRR	N393753.12	W0772008.51	N3937.885	W07720.142
	PERTE	N391027.86	W0771637.47	N3910.464	W07716.625
	SHNON	N385559.19	W0780322.35	N3855.987	W07803.373
	TRING	N390200.00	W0772051.60	N3902.000	W07720.860

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ARINC FLIGHT INSPECTION SUMMARY - VERSION 424-18

CONTINUED...

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	WAXIN	N385039.71	W0772615.49	N3850.662	W07726.258
	YYANG	N391832.01	W0772550.37	N3918.534	W07725.840
	ZEGVA	N391149.85	W0772107.00	N3911.831	W07721.117
	RW19L	N385719.18	W0772609.53	N3857.320	W07726.159

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW19L	00293	55

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