

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) - STANDARD
INSTRUMENT APPROACH PROCEDURE
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.

TERMINAL ROUTES				MISSED APPROACH					
FROM	TO	COURSE AND DISTANCE	ALTITUDE						
MWH VOR/DME	TICYU (FO)	342.90 / 14.44	4000	LPV: DA LNAV/VNAV: DA LNAV: RW21 CLIMB TO 4500 DIRECT UDECU AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, RT, 026.55 INBOUND. CHART FAS OBST: 1349 TREE 471907N/1193004W DISTANCE TO THLD FROM 250 HAT: 0.63 NM. CHART VDP AT 2.21 MILES TO RW21* *LNAV ONLY. WAAS CHANNEL # 82308 REFERENCE PATH ID: W21A					
WIPES (IAF)	TICYU (NOPT) (FB)	268.83 / 9.07	3800						
TICYU (IF/IAF)	CIGUM (FB)	206.85 / 6.08	2900						
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD NE TICYU, RT, 206.85 INBOUND, 3800 FT. IN LIEU OF PT (IAF) 3. FAC: <u>206.78</u> FAF: <u>CIGUM</u> DIST FAF TO MAP: <u>4.92</u> THLD: <u>4.92</u> 4. MIN. ALT: <u>TICYU 3800, CIGUM 2900</u> 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: <u>2900</u> GS ALT AT: <u>CIGUM</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>51.0</u> <u>34:1 IS CLEAR</u> 8. MSA FROM: <u>RW21 5200</u>				MAG VAR: 16E EPOCH YEAR: 2010					
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
LPV DA	1526	3/4	250	1526	3/4	250	1526	3/4	250
LNAV/VNAV DA	2171	4	895	2171	4	895	2171	4	895
LNAV MDA	2020	1	744	2020	1 1/4	744	2020	2 1/2	744
CIRCLING	2020	1	744	2020	1 1/4	744	2500	3	1224
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 46C (114F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MWH VOR/DME VIA V497 SOUTHEAST BOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WIPES VIA V120 NORTHEAST BOUND. SEE 8260-10									
CITY AND STATE		ELEVATION: 1276 TDZE: 1276		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:		SUP:	
EPHRATA, WA		AIRPORT NAME:		RNAV		RNAV (GPS) RWY 21, ORIG-A 14 JAN 2010		AMDT: ORIG	
		EPHRATA MUNI						DATED 05/07/2009	

QUALITY
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NOTES CONT.**CHART PROFILE NOTE: VGS1 AND RNAV GLIDEPATH NOT COINCIDENT.****CHART NOTE: VDP AND BARO-VNAV NA WHEN USING MOSES LAKE/GRANT COUNTY INTL ALTIMETER SETTING.****CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MOSES LAKE/GRANT COUNTY INTL ALTIMETER SETTING AND INCREASE ALL DA/MDA 40 FEET; INCREASE VISIBILITY LPV ALL CATS, LNAV CATS C AND D AND CIRCLING CAT C 1/4 MILE.**

QUALITY
5
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CITY AND STATE

EPHRATA, WA

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FAS DATA BLOCK INFORMATION

DATA FIELD

DATA

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KEPH
RUNWAY	RW21
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	0
REFERENCE PATH DATA SELECTOR	W21A
REFERENCE PATH IDENTIFIER (APPROACH ID)	471900.9900N
LTP/FTP LATITUDE	1193024.7100W
LTP/FTP LONGITUDE	+03684
LTP/FTP ELLIPSOIDAL HEIGHT	471755.5500N
FPAP LATITUDE	1193153.5200W
FPAP LONGITUDE	00051.0
THRESHOLD CROSSING HEIGHT (TCH)	F
TCH UNITS SELECTOR (METERS OR FEET USED)	03.00
GLIDEPATH ANGLE (GPA)	106.75
COURSE WIDTH AT THRESHOLD	1072
LENGTH OFFSET	40.0
HORIZONTAL ALERT LIMIT (HAL)	50.0
VERTICAL ALERT LIMIT (VAL)	

CRC REMAINDER

1E1934F2

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+03888
FPAP ORTHOMETRIC HEIGHT	+03888

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CITY AND STATE EPHRATA, WA	ELEVATION: 1276 TDZE: 1276 AIRPORT NAME: EPHRATA MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 21, ORIG-A 14 JAN 2010	SUP:
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[illegible]

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ARINC FLIGHT INSPECTION SUMMARY - VERSION 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE
	MWH	MWH	010		IF		FB				
	MWH	TICYU	020	IAF	TF		FO	2.0	342.9 (359T)	014.4	04000
	MWH	TICYU	030		HF	R	FO		206.9 (223T)	004.0	03800
	WIPES	WIPES	010	IAF	IF		FB				
	WIPES	TICYU	020	IF	TF		FB	1.0	268.8 (285T)	009.1	03800
		TICYU	010	FACF	IF		FB				03800
		CIGUM	020	FAF	TF		FB	0.5	206.9 (223T)	006.1	02900
		RW21	030	MAP	TF		FO	0.3	206.8 (223T)	004.9	01327

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE
	UDECU	040		DF		FO	1.0			04500
	UDECU	050		HM	R	FO	2.0	026.6 (043T)	005.0	04500

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	MWH	N471239.11	W1191900.54	N4712.652	W11919.009
	CIGUM	N472237.55	W1192530.16	N4722.626	W11925.503
	TICYU	N472705.10	W1191924.95	N4727.085	W11919.416
	UDECU	N470834.31	W1194431.74	N4708.572	W11944.529
	WIPES	N472446.55	W1190629.42	N4724.776	W11906.490
	RW21	N471900.99	W1193024.71	N4719.017	W11930.412

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW21	01276	51

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