

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: RW30 CLIMB TO 1800 THEN CLIMBING RIGHT TURN TO 3500 DIRECT ALEYU AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 300.54 INBOUND. CHART FAS OBST: 769 TREE 440455N/0914139W CHART: 851 GRAIN ELEVATOR 440323N/0913903W DISTANCE TO THLD FROM 355 HAT: 0.96 NM. CHART VDP AT 1.86 NM TO RW30* *LNAV ONLY. WAAS CHANNEL # 40329 REFERENCE PATH ID: W30A CHART CIRCLING ICON. LTP HAE: 169.4 M						
ALEYU (IF/IAF)		WABNY (TF) (FB) (RNP 1.00)			300.54 / 6.00			2400								
WABNY (FAF)		ZORMO/2.50 NM TO RW30 (TF) (FB) (RNP 0.30)			300.46 / 2.82											
ZORMO/2.50 NM TO RW30		RW30 (MAP) (TF) (FO) (RNP 0.30)			300.46 / 2.50											
RW30 (MAP)		1800 MSL (CA)			300.46			1800								
1800 MSL		ALEYU (DF) (FO) (RNP 1.00)						3500								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SE ALEYU, RT, 300.54 INBOUND, 3500 FT. IN LIEU OF PT (IAF) 3. FAC: 300.46 FAF: WABNY DIST FAF TO MAP: 5.32 THLD: 5.32 4. MIN. ALT: ALEYU 3500, WABNY 2400, ZORMO/2.50 NM TO RW30 1500* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2400 GS ALT AT: WABNY 2400 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 49.5 34:1 IS CLEAR 8. MSA FROM: _____											MAG VAR: 1W		EPOCH YEAR: 2020			
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		@							
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	1011	3/4	355	1011	3/4	355	1011	3/4	355	1011	3/4	355				
LNAV/VNAV DA	1140	1 1/8	484	1140	1 1/8	484	1140	1 1/8	484	1140	1 1/8	484				
LNAV MDA	1280	1/2	624	1280	1/2	624	1280	1 3/8	624	1280	1 3/8	624				
CIRCLING	1560	1 1/4	904	1600	1 1/4	944	1780	3	1124	1980	3	1324				
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LA CROSSE ALTIMETER SETTING AND INCREASE ALL LPV DA TO 1064 FT AND VISIBILITY 1/8 MILE ALL CATS, ALL LNAV/VNAV DA TO 1193 AND VISIBILITY 1/8 (CONTINUED ON PAGE 2)																
CITY AND STATE		ELEVATION: 656 TDZE: 656			FACILITY IDENTIFIER: RNAV			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:			
WINONA, MN		AIRPORT NAME:			WINONA MUNI-MAX CONRAD FLD			RNAV (GPS) RWY 30, AMDT 2A 22 JUNE 2017					AMDT: 2			
													DATED 02/04/2016			



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

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NOTES, (CONT.):

MILE ALL CATS, AND ALL MDA 60 FT, INCREASE LNAV CAT C/D AND CIRCLING CAT B VISIBILITY 1/4 MILE.

CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV ALL CATS VISIBILITY TO 1 1/8 MILE.

CHART NOTE: FOR INOPERATIVE ALS WHEN USING LA CROSSE ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY TO 1 3/8 MILE, AND LNAV CATS C/D VISIBILITY TO 2 MILE.

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING LA CROSSE ALTIMETER SETTING.

TAA

	FROM	TO	ALT
1.	211/30 CW 031/30 (NOPT)	ALEYU (IF/IAF) (FB)	3500
2.	031/30 CW 211/30	ALEYU (IAF) (FO)	3500

QUALITY
22
CHECKED

CITY AND STATE
WINONA, MN

ELEVATION: 656 TDZE: 656
AIRPORT NAME:
WINONA MUNI-MAX CONRAD FLD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 30, AMDT 2A
22 JUNE 2017

SUP:
AMDT: 2
DATED: 02/04/2016

**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	KONA
RUNWAY	RW30
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W30A
LTP/FTP LATITUDE	440435.1620N
LTP/FTP LONGITUDE	0914213.6895W
LTP/FTP ELLIPSOIDAL HEIGHT	+01694
FPAP LATITUDE	440518.8695N
FPAP LONGITUDE	0914401.4065W
THRESHOLD CROSSING HEIGHT (TCH)	00049.5
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>	 64ADE444

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02000
FPAP ORTHOMETRIC HEIGHT	+02000

QUALITY
22
CHECKED

CITY AND STATE WINONA, MN	ELEVATION: 656 AIRPORT NAME: WINONA MUNI-MAX CONRAD FLD	TDZE: 656 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 30, AMDT 2A 22 JUNE 2017	SUP:
				AMDT: 2
				DATED: 02/04/2016