

<b>RNAV - STANDARD</b> <b>INSTRUMENT APPROACH PROCEDURE</b> <b>TITLE 14 CFR PART 97.33</b>				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: RW23  CLIMB TO 2400 DIRECT FOVOJ AND HOLD.  ADDITIONAL FLIGHT DATA: HOLD SW, LT, 051.32 INBOUND. CHART FAS OBST: 846 TOWER 422634N/0874818W. DISTANCE TO THLD FROM 257 HAT: 0.64 NM. CHART VDP AT 1.27 NM TO RW23* *LNAV ONLY. WAAS CHANNEL # 86211 REFERENCE PATH ID: W23A CHART CIRCLING ICON. LTP HAE: 185.9 M					
PAPPI		FOLBU (TF) (FB) (RNP 2.00)			359.36 / 11.97			2300							
FOLBU (IAF)		LIRIC (NOPT) (TF) (FB) (RNP 1.00)			321.62 / 5.00			2300							
TALOR (IAF)		LIRIC (NOPT) (TF) (FB) (RNP 1.00)			226.71 / 4.89			2300							
LIRIC (IF/IAF)		OLBOE (TF) (FB) (RNP 1.00)			231.57 / 6.00			1900							
OLBOE (FAF)		RW23 (MAP) (TF) (FO) (RNP 0.30)			231.50 / 3.49										
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NE LIRIC, RT, 231.57 INBOUND, 2300 FT. IN LIEU OF PT (IAF) 3. FAC: 231.50 FAF: OLBOE DIST FAF TO MAP: 3.49 THLD: 3.49 4. MIN. ALT: LIRIC 2300, OLBOE 1900 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1900 GS ALT AT: OLBOE OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 52.9 34:1 IS CLEAR 8. MSA FROM: RW23 2500															
										MAG VAR: 3W			EPOCH YEAR: 2000		
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	980	1/2	257	980	1/2	257	980	1/2	257	980	1/2	257			
LNAV/VNAV DA	1020	1/2	297	1020	1/2	297	1020	1/2	297	1020	3/4	297			
LNAV MDA	1160	1/2	437	1160	1/2	437	1160	3/4	437	1160	1	437			
CIRCLING	1220	1	493	1220	1	493	1220	1 1/2	493	1400	2 1/4	673			
NOTES: CHART NOTE: CIRCLING TO RWY 14, 32 NA AT NIGHT. @ CAT D 800-2 1/4 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 PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 7/8 SM.															
CITY AND STATE			ELEVATION: 727 TDZE: 723			FACILITY IDENTIFIER:			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:		
CHICAGO/WAUKEGAN, IL			AIRPORT NAME:			RNAV			RNAV (GPS) RWY 23, ORIG-A				AMDT: ORIG		
			WAUKEGAN NATIONAL						7 DECEMBER 2017				DATED 07/07/2005		

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

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW23 (MAP)	980 MSL (CA)	231.50	
980 MSL	FOVOJ (DF) (FO) (RNP 1.00)		2400

CITY AND STATE  
CHICAGO/WAUKEGAN, IL

ELEVATION: 727 TDZE: 723  
AIRPORT NAME:  
WAUKEGAN NATIONAL

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 23, ORIG-A  
7 DECEMBER 2017

SUP: **QUALITY 10 CHECKED**  
AMDT: **ORIG**  
DATED: **07/07/2005**

**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	KUGN
RUNWAY	RW23
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W23A
LTP/FTP LATITUDE	422536.3800N
LTP/FTP LONGITUDE	0875132.3300W
LTP/FTP ELLIPSOIDAL HEIGHT	+01859
FPAP LATITUDE	422437.2600N
FPAP LONGITUDE	0875302.3600W
THRESHOLD CROSSING HEIGHT (TCH)	00052.9
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0920
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 3B071042

**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02204
FPAP ORTHOMETRIC HEIGHT	+02204

CITY AND STATE

CHICAGO/WAUKEGAN, IL

ELEVATION: 727

TDZE: 723

AIRPORT NAME:

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PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 23, ORIG-A

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SUP:

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 QUALITY  
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CHECKED

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