

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33**

Bearings, headings, courses, tracks 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 feet RVR.

<u>AIRPORT ID</u> KUGN	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 5	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> CHICAGO/WAUKEGAN	<u>STATE</u> IL		
<u>AIRPORT ELEVATION</u> 728	<u>TDZE</u> 726	<u>SUPERSEDED</u> RNAV (GPS) RWY 5	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 12/07/2017	<u>MAG VAR</u> 3W	<u>EPOCH YEAR</u> 2000
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
PLSNT	IAF	FOVOJ	NOPT	TF	FB	1.00	141.24	8.00	2400
JETRU	IAF	FOVOJ	NOPT	TF	FB	1.00	321.45	8.00	2400
FOVOJ	IF/IAF	BILCO		TF	FB	1.00	051.33	5.94	2400
BILCO	FAF	HIGEK/1.99 NM TO RW05		TF	FB	0.30	051.38	3.14	
HIGEK/1.99 NM TO RW05		RW05	MAP	TF	FO	0.30	051.38	1.99	
RW05	MAP	976 MSL		CA			051.38		
976 MSL		LIRIC		DF	FO	1.00			2300

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW05

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2300 DIRECT LIRIC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD SW FOVOJ, LT, 051.32 INBOUND, 2400 FT. IN LIEU OF PT (IAF), MAX 10000.

3. FAC: 051.38FAF: BILCODIST FAF TO MAP: 5.13DIST FAF TO THLD: 5.13

4. MIN ALT: FOVOJ 2400, BILCO 2400, HIGEK/1.99 NM TO RW05 1400

5. DIST TO THLD FROM OM:MM:IM:150 HAT:250 HAT: 0.66GS ANT:

6. MIN GP INCPT: 2400GP ALT AT FAF : BILCOOM:MM:IM:

7. GP ANGLE: 3.0034:1: IS NOT CLEAR20:1: IS CLEARTCH: 40.0

8. MSA FROM: RW05 2500

PBN REQUIREMENTS NOTE:

RNP APCH - GPS

NOTES:

CHART NOTE: RWY 5 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: CIRCLING RWY 14, 32 NA AT NIGHT.

ADDITIONAL FLIGHT DATA:

HOLD NE, RT, 231.57 INBOUND.
CHART FAS OBST: 859 GRAIN_ELEVATOR (17-002419) 422314N/0875400W.
CHART VDP AT 1.12 NM TO RW05
WAAS CHANNEL # 81812
REFERENCE PATH ID: W05A
CHART CIRCLING ICON.
LTP HAE: 186.8 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4, NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	976	3/4	250	976	3/4	250	976	3/4	250	976	3/4	250			
LNAV/VNAV DA	1013	7/8	287	1013	7/8	287	1013	7/8	287	1013	7/8	287			
LNAV MDA	1120	1	394	1120	1	394	1120	1 1/8	394	1120	1 1/8	394			
CIRCLING	1220	1	492	1220	1	492	1220	1 1/2	492	1400	2 1/4	672			

QUALITY
16
CHECKED

CHANGES - REASONS

1. LPV DA/HAT DECREASED FROM 990/265 TO 976/250; VISIBILITY DECREASED FROM 1 TO 3/4. - NEW OBSTACLE EVALUATION; NEW INOP VISIBILITY TABLE USED.
2. LNAV/VNAV DA/HAT DECREASED FROM 1140/415 TO 1013/287; VISIBILITY DECREASED FROM 1 1/2 TO 7/8. - NEW OBSTACLE EVALUATION; NEW INOP VISIBILITY TABLE USED.
3. LNAV MDA CAT D VISIBILITY DECREASED FROM 1 1/4 TO 1 1/8. - NEW INOP VISIBILITY TABLE USED.
4. TERMINAL ROUTES: REMOVED FEEDER PAPPI TO JETRU AND INITIAL KRENA TO FOVOJ. ADDED INITIAL PLSNT TO FOVOJ. - FPT REQUEST.
5. TERMINAL ROUTES: UPDATED INITIAL JETRU TO FOVOJ COURSE/DISTANCE FROM 321.37/5.00 TO 321.45/8.00. - FPT REQUEST EXTENSION OF INITIAL TO 8 NM.
6. TERMINAL ROUTES: UPDATED INTERMEDIATE FOVOJ TO BILCO COURSE/DISTANCE FROM 051.32/6.01 TO 051.33/5.94. - PFAF MOVED TO MAINTAIN GPA/TCH IAW 8260.58A.
7. TERMINAL ROUTES: UPDATED "BILCO TO HIGEK/1.87 NM TO RW05" TO "BILCO TO HIGEK/1.99 NM TO RW05;" COURSE/DISTANCE UPDATED FROM 051.39/3.19 TO 051.38/3.14. - PFAF AND STEPDOWN MOVED TO MAINTAIN GPA/TCH IAW 8260.58A.
8. TERMINAL ROUTES: UPDATED MISSED APPROACH CA LEG ALTITUDE FROM 990 MSL TO 976 MSL; COURSE UPDATED FROM 051.39 TO 051.38. - LPV DA DECREASED AND FINAL COURSE UPDATED.
9. PROFILE LINE 2: ADDED MAX ALTITUDE 10000. - IAW 8260.19I PARA 8-6-7 B(2).
10. PROFILE LINE 3: UPDATED FINAL APPROACH COURSE FROM 051.39 TO 051.38; DISTANCE FAF TO MAP/THLD FROM 5.06 TO 5.13. - PFAF MOVED TO MAINTAIN GPA/TCH IAW 8260.58A.
11. PROFILE LINE 4: UPDATED HIGEK/1.87 NM TO RW05 1360* TO HIGEK/1.99 NM TO RW05 1400. - STEPDOWN ALTITUDE INCREASED DUE TO NEW OBSTACLE EVALUATION.
12. PROFILE LINE 5: ADDED DISTANCE TO THLD FROM 250 HAT: 0.66; AND "DISTANCE TO THLD FROM 265 HAT: 0.71 NM" REMOVED FROM ADDITIONAL FLIGHT DATA. - LPV DA/HAT UPDATED.
13. PROFILE LINE 7: UPDATED 34:1 IS CLEAR TO 34:1 IS NOT CLEAR; ADDED 20:1 IS CLEAR. - 34:1 PENETRATIONS EXIST; NO 20:1 PENETRATIONS.
14. REMOVED CHART NOTE: DME/DME RNP-0.3 NA; ADDED PBN REQUIREMENTS NOTE: RNP APCH - GPS. - IAW 8260.58A TABLE 1-2-1.
15. UPDATED CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F) TO -16F TO 54C. - FAHRENHEIT REMOVED IAW 8260.19I.
16. REMOVED CHART NOTES: "PROCEDURE NA FOR ARRIVALS AT PAPPI ON V48 EASTBOUND" AND "PROCEDURE NA FOR ARRIVALS AT KRENA ON V24-100 WESTBOUND." - FEEDER PAPPI AND INITIAL KRENA REMOVED.
17. ADDED CHART NOTE: CHART NOTE: RWY 5 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. - 34:1 PENETRATIONS PRESENT.
18. UPDATED CHART NOTE: FROM "CIRCLING TO RWY 14, 32 NA AT NIGHT" TO "CIRCLING RWY 14, 32 NA AT NIGHT." - IAW 8260.19I 8-6-11 O(2)G.
19. UPDATED CHART FAS OBST: FROM 855 POWER LINES TO 859 GRAIN ELEVATOR. - NEW LNAV STEPDOWN CONTROLLING OBSTACLE.
20. UPDATED ADDITIONAL FLIGHT DATA: CHART VDP AT 1.10 NM TO RW05* UPDATED TO 1.12 NM TO RW05; *LNAV ONLY REMOVED. - STEPDOWN HIGEK MOVED; IAW 8260.19I 8-6-10 M.
21. FAS DATA: FPAP LONGITUDE UPDATED FROM 0875102.1600W TO 0875102.14200W. - NEW FPAP LOCATION.
22. FAS DATA: LTP/FPAP ORTHOMETRIC HEIGHT UPDATED FROM +02210 TO +02212. - FPAP LONGITUDE UPDATED.
23. FAS DATA: CRC REMAINDER UPDATED FROM AE11DD04 TO CCC0925C. - FPAP LONGITUDE AND LTP/FPAP ORTHOMETRIC HEIGHT UPDATED.
24. UPDATED AIRPORT ELEVATION FROM 727 TO 728; TDZE FROM 725 TO 726. - NEW AIRNAV DATA INCORPORATED.

COORDINATED WITH:A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER:**FLIGHT CHECKED BY**

MICHAEL A GREENWOOD

OFFICE

FICO

DATE

04/13/2021

Digitally signed by

DAVID TEFFETELLER

Apr 28, 2021

DEVELOPED BY

JON DENTON (BARBARA GORMAN)

Digitally signed by

DAVID TEFFETELLER

Apr 28, 2021

OFFICE

AJV-A432

DATE

02/03/2021

APPROVED BY

LONNIE EVERHART

Digitally signed by

DAVID TEFFETELLER

Apr 28, 2021

OFFICE

AJV-A430

DATE**TITLE**

MANAGER

QUALITY
16
CHECKED

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KUGN
RUNWAY	RW05
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W05A
LTP/FTP LATITUDE	422457.0635N
LTP/FTP LONGITUDE	0875232.1755W
LTP/FTP ELLIPSOIDAL HEIGHT	+01868
FPAP LATITUDE	422556.1800N
FPAP LONGITUDE	0875102.1420W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
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
CRC REMAINDER	CCC0925C

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02212
FPAP ORTHOMETRIC HEIGHT	+02212



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

<u>AIRPORT ID</u> KUGN	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 5	<u>AMDT NO.</u> 1	<u>CITY</u> CHICAGO/WAUKEGAN	<u>STATE</u> IL	<u>AIRPORT ELEVATION</u> 728	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM
PLSNT

TO
FOVOJ

<u>RNP</u>	<u>DISTANCE</u> 8.00	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
												AAO	421609.00N/0880251.00W	1073	164	98	4E	1000				AT327	2400
												TERRAIN	422203.00N/0880939.00W	862 (900)								AS1000	1900

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

INITIAL

FROM
JETRU

TO
FOVOJ

<u>RNP</u>	<u>DISTANCE</u> 8.00	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
												AAO	421609.00N/0880251.00W	1073	164	98	4E	1000				AT327	2400
												TERRAIN	421609.00N/0880251.00W	872 (900)								AS1000	1900

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:



INTERMEDIATE

FROM
FOVOJ (IF/IAF)

TO
BILCO

RNP	DISTANCE 5.94	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	421609.00N/0880251.00W		1073	164	98	4E	500				AC98	1700
TERRAIN	421609.00N/0880251.00W		872 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LPV

FROM
BILCO

TO
RW05

RNP	DISTANCE 5.13	PAT	MAP DA	HAT 250			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (17-070235)	422439.66N/0875252.52W		788	20	3	1A		34.00:1				976

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV/VNAV

FROM

BILCO

TO

RW05

RNP	DISTANCE	PAT	MAP	HAT				HMAS				
	5.13		DA		287							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TRANSMISSION_LINE (17-069625)	422421.72N/0875234.34W		852	20	3	1A	161					1013

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

FINAL: LNAV

FROM

BILCO

TO

HIGEK/1.99 NM TO RW05

RNP	DISTANCE	PAT	MAP	HAT				HMAS				
	3.14											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
BUILDING (17-002419)	422210.00N/0875609.00W		1048	250	50	4D	250				AC50 RA40	1400

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



FINAL: LNAV STEPDOWN

FROM

HIGEK/1.99 NM TO RW05

TO

RW05

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	1.99		RW05	394								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
GRAIN_ELEVATOR (17-069681)	422313.71N/0875359.82W		859	20	3	1A	250					1120

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

HOLD-IN-LIEU OF PT

FROM

FOVOJ

TO

P-5

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
		P-5										
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (17-000994)	421412.00N/0880416.00W		1360	250	50	4D	1000					2400
TERRAIN	421451.00N/0880533.00W		928 (900)								AS1000	1900

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



MISSED APPROACH : LPV

FROM

DA

TO

LIRIC

RNP	DISTANCE	PAT	MAP	HAT			HMAS 789					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2300
TOWER (17-021588)	422635.68N/0874903.54W		910	50	20	2C	1000					2000
TERRAIN	422518.00N/0875227.00W		741 (700)								AS1000	1700

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

MISSED APPROACH : LNAV/VNAV

FROM

DA

TO

LIRIC

RNP	DISTANCE	PAT	MAP	HAT			HMAS 852					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2300
TOWER (17-021588)	422635.68N/0874903.54W		910	50	20	2C	1000					2000
TERRAIN	422518.00N/0875227.00W		741 (700)								AS1000	1700

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



MISSED APPROACH : LNAV

FROM

RW05

TO

LIRIC

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1020					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2300
TOWER (17-021588)	422635.68N/0874903.54W		910	50	20	2C	1000					2000
TERRAIN	422518.00N/0875227.00W		741 (700)								AS1000	1700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TRANSMISSION_LINE (17-003332)	422541.84N/0875356.79W	1.30	492	867	250	50	4D	300		AC50	1220
CATEGORY B											
WATER_TOWER (17-069340)	422713.15N/0875233.85W	1.83	492	881	20	10	1B	300			1220
CATEGORY C											
TOWER (17-021588)	422635.68N/0874903.54W	2.88	492	910	50	20	2C	300			1220
CATEGORY D											
STACK (17-000298)	422257.00N/0874848.00W	3.76	672	1037	500	50	5D	300		AC50	1400

CIRCLING REMARKS:



MSA

CENTER
RW05

RADIUS
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (17-000283)	420042.49N/0880206.93W	199	25.3	1468	20	10	1B	1000			2500

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

TAA NOT DEVELOPED PER FPT REQUEST.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ORD APP CON, UGN TOWER

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KUGN	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KUGN	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KENW	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KENW	<u>DISTANCE</u> 10.743	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 27

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KUGN 728, KENW 742
RA = 26.8.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW14 - MIRL (PCL), VASI-4L		BSC-G	
RW32 - MIRL (PCL)		BSC-G	
RW05 - HIRL (PCL), REIL (PCL), VASI-4L		PIR-G	
RW23 - MALSR (PCL), HIRL (PCL), VASI-4L		PIR-G	

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 725.8	<u>TCH</u> 40.0	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 35.3
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u> -16C	<u>CRITICAL HIGH</u> +54C	<u>ACT</u> -16C	<u>APT ISA</u> +13.56C
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CRITICAL TEMPERATURE REMARKS:
AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 965 HIGH TEMP 1273.



"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	CIRCLING RWY 14				
20:1					
783 TREE (17-068885) 422543.96N/0875223.79W (20.1)			773 TREE (17-070043) 422541.72N/0875227.43W (11.31)		
771 TREE (17-069101) 422544.28N/0875222.56W (9.48)			772 TREE (17-070712) 422543.15N/0875225.37W (8.96)		
765 TREE (17-032054) 422541.54N/0875227.69W (3.48)			797 TREE (17-031781) 422547.04N/0875232.74W (1.82)		
779 TREE (17-070555) 422546.88N/0875224.93W (1.61)			761 TREE (17-068823) 422541.00N/0875227.74W (1.58)		
Final Type	CIRCLING RWY 32				
20:1					
777 TREE (17-070108) 422459.47N/0875139.00W (1.88)			767 TREE (17-068718) 422501.23N/0875140.18W (1.7)		
Final Type	LPV, LNAV/VNAV AND LNAV				
34:1					
780 TREE (17-070484) 422446.25N/0875249.90W (9.46)			777 TREE (17-068747) 422446.49N/0875250.52W (5.91)		
777 TREE (17-070694) 422445.29N/0875251.40W (2.09)			781 TREE (17-069471) 422441.03N/0875249.11W (1.46)		
788 TREE (17-070235) 422439.66N/0875252.52W (0.12)					

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

<u>PENETRATIONS REMARKS:</u>

PART C: GENERAL REMARKS:
100 FEET VEGETATION USED PER FPT CHECKLIST.

CONTINGENCY ALTIMETER NOTES:
WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE KENOSHA RGNL ALTIMETER SETTING: INCREASE LPV DA TO 1003 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 1040 FEET AND INCREASE ALL MDA 40 FEET; INCREASE VISIBILITY LNAV CAT C/D 1/8 SM.
BARO-VNAV AND VDP NA WHEN USING KENOSHA RGNL ALTIMETER SETTING.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT ID</u> KUGN	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 5	<u>AMDT NO.</u> 1	<u>CITY</u> CHICAGO/WAUKEGAN	<u>STATE</u> IL	<u>AIRPORT ELEVATION</u> 728	<u>FACILITY</u> RNAV
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PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.25
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	048.38
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	800
DISTANCE FROM	THLD	TO 1500FT POINT	4.93
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	048.33
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	900

THRESHOLD
COORDINATES
(IF STR-IN)

422457.06N/0875232.18W

ARP COORDINATES

422519.74N/0875204.50W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 5 DISTANCE 0.51 NM

FAF
COORDINATES

422132.63N/0875742.94W

FIX NAME
COORDINATES

REMARKS

QUALITY
16
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

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PART E: PREPARED BY

<u>NAME</u> JON DENTON (BARBARA GORMAN)	<u>OFFICE</u> AJV-A432	<u>DATE</u> 02/03/2021	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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