

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</u> CHICAGO O'HARE INTL	<u>AIRPORT ID</u> KORD	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 27R	<u>ORIGINAL/AMENDMENT</u> 3B	<u>CITY</u> CHICAGO	<u>STATE</u> IL	
<u>AIRPORT ELEVATION</u> 680	<u>TDZE</u> 664	<u>SUPERSEDED</u> RNAV (GPS) RWY 27R	<u>ORIGINAL/AMENDMENT</u> 3A	<u>DATED</u> 08/17/2017	<u>MAG VAR</u> 3W	<u>EPOCH YEAR</u> 2010
<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>
VOGLR	IAF	VINYY		TF	FB	1.00	284.27	17.46	9000
VINYY		JOKKR		TF	FB	1.00	273.40	3.14	8000
JOKKR		IYLEK		TF	FB	1.00	273.35	3.14	7000
IYLEK		WELEV		TF	FB	1.00	273.31	3.14	6000
WELEV		HAREE		TF	FB	1.00	273.25	3.14	5000
HAREE	IF	BONZO		TF	FB	1.00	273.15	3.14	4000
BONZO		SIBLY		TF	FB	1.00	273.19	6.39	2200
SIBLY	FAF	RW27R	MAP	TF	FO	0.30	273.09	4.65	
RW27R	MAP	1100 MSL		CA			273.09		1100
1100 MSL		UMUZI		DF	FO	1.00			4000

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW27R

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1100 THEN CLIMBING RIGHT TURN TO 4000 DIRECT UMUZI AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. PROFILE STARTS AT VINYY

3. FAC:

273.09

FAF: SIBLY

DIST FAF TO MAP: 4.65

DIST FAF TO THLD: 4.65

4. MIN ALT: VINYY 9000, JOKKR 8000, IYLEK 7000, WELEV 6000, HAREE 5000, BONZO 4000, SIBLY 2200

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

200 HAT: 0.46

GS ANT:

6. MIN GP INCPT: 2200

GP ALT AT FAF : SIBLY 2200

OM:

MM:

IM:

7. GP ANGLE: 3.00

34:1: IS CLEAR

20:1: IS CLEAR

TCH: 54.8

8. MSA FROM: RW27R 3400

PBN REQUIREMENTS NOTE:

RNP APCH.

EQUIPMENT REQUIREMENTS NOTE:

RADAR REQUIRED FOR PROCEDURE ENTRY.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -19C OR ABOVE 54C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.

ADDITIONAL FLIGHT DATA:

CHART VDP AT 1.21 NM TO RW27R*
*LNAV ONLY
WAAS CHANNEL #69508
REFERENCE PATH ID: W27B
FAS OBST: 864 AAO 420037N/0874926W.
HOLD N, RT, 176.22 INBOUND
LTP HAE: 168.6 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD

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	864	1800	200	864	1800	200	864	1800	200	864	1800	200			
LNAV/VNAV DA	961	2400	297	961	2400	297	961	2400	297	961	2400	297			
LNAV MDA	1120	2400	456	1120	2400	456	1120	4500	456	1120	4500	456			



CHANGES - REASONS

- 1. ADDED PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT - VGSI ADDED TO RWY.
- 2. DELETED CHART NOTE DME/DME RNP-0.3 NA - ADDED PBN REQUIREMENTS NOTE: RNP APCH.
- 3. ADDED 20:1 IS CLEAR TO PROFILE LINE 7 - IAW 8260.19H, 8-6-7G WHEN NO 20:1 PENETRATIONS.
- 4. ADDED RNP VALUES AND LEG TYPES TO TERMINAL ROUTES - IAW CURRENT DOCUMENTATION CRITERIA.
- 5. CHANGED VDP FROM 1.26 NM TO RW27R TO 1.21 NM TO RW27R - IAW 8260-3D, 2-6-5B.(1).
- 6. REMOVED FAHRENHEIT TEMPERATURE FROM BARO-VNAV NOTE - IAW 8260.19H, 8-6-9S.
- 7. DELETED PLANVIEW NOTE: RADAR REQUIRED - ADDED EQUIPMENT REQUIREMENTS NOTE: RADAR REQUIRED FOR PROCEDURE ENTRY.

11/19/2018: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 10/3/2018.

- 1. ADDED BONZO 4000 TO MIN ALT ON LINE 4.



COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZAU, CHICAGO APP CON, ORD TOWER, AMGR

FLIGHT CHECKED BY

FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, DEC 22, 2017.

Digitally signed by OFFICE

DATE

BEV L BORDY
Nov 20, 2018

DEVELOPED BY

IVAN BLANCO

Digitally signed by
IVAN BLANCO
Aug 14, 2018

OFFICE

DATE

AJV-5432

08/14/2018

APPROVED BY

PATRICK MULQUEEN

Digitally signed by
BEV L BORDY
Nov 20, 2018

OFFICE

DATE

AJV-5430

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KORD
RUNWAY	RW27R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W27B
LTP/FTP LATITUDE	420010.1905N
LTP/FTP LONGITUDE	0875356.6995W
LTP/FTP ELLIPSOIDAL HEIGHT	+01686
FPAP LATITUDE	420010.2045N
FPAP LONGITUDE	0875556.2060W
THRESHOLD CROSSING HEIGHT (TCH)	00054.8
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0464
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	EFCD8BF
ADDITIONAL PATH POINT RECORD INFORMATION	
ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02023
FPAP ORTHOMETRIC HEIGHT	+02023



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

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
CHICAGO O'HARE INTL	KORD	RNAV (GPS) RWY 27R	3B	CHICAGO	IL	680	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM TO
VOGLR VINYY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
	17.46										
<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>
1.SHIP	415700.00N/0870006.00W	787	50	20	2C	1000				AT7213	9000
2.TERRAIN	415700.00N/0870006.00W	579 (600)								AS1500	2100

COMPUTATIONS

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

INITIAL: STEPDOWN

FROM TO
VINYY JOKKR

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
	3.14										
<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>
3.SHIP	415825.00N/0872000.00W	787	50	20	2C	1000				AT6213	8000
4.TERRAIN	415825.00N/0872000.00W	579 (600)								AS1500	2100

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

RW27R

TO

UMUZI

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
							1020				
<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>
							ASC				4000
17.TOWER (17-000994)	421412.00N/0880416.00W	1360	250	50	4D	1000					2400
18.TERRAIN	421451.00N/0880530.00W	929 (900)								AS1500	2400

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

MSA

CENTER

RW27R

RADIUS

25

<u>SECTOR</u>	<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>BEARING</u>	<u>DISTANCE</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
360-360	BLDG (17-000687)	415244.00N/0873809.00W	125	13.9	2325	50	50	2D	1000			3400

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PER AIR TRAFFIC REQUEST, ALL INITIAL AND INTERMEDIATE FIXES WHERE LOCATED USING THE TANGENT OF RWY 28R 4000 - 9000 FT FIXES.

PER AIR TRAFFIC REQUEST, RADAR VECTORS TO JOIN SIAP; NO FEEDERS, NO TAA.

ALL SHIPS ASSUMED 208 FT.

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

CHICAGO APP CON, ORD TOWER



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
CHICAGO O'HARE INTL	KORD	RNAV (GPS) RWY 27R	3B	CHICAGO	IL	680	RNAV

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
-19C	+54C	-19C	+13.65C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2010-2014).
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 963 HIGH TEMP 1124.

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

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

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
BACKUP ALTIMETER SETTING NOT ESTABLISHED DUE TO REDUNDANT WEATHER SOURCES AT AIRPORT.

PDF EDIT: REMOVED OBS 16 FROM LPV AND LNAV MISSED APPROACH SEGMENTS ON 8260-9, ONLY LNAV/VNAV HAS MA
PENETRATION.



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	3.08
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	270.09
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	664
DISTANCE FROM	THLD	TO 1500FT POINT	4.65
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.13
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	270.09
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	664

THRESHOLD
COORDINATES
(IF STR-IN)420010.19N/0875356.70W

ARP COORDINATES415828.28N/0875423.75W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP RUNWAY 9L DISTANCE 1.65 NM

FAF
COORDINATES420009.92N/0874742.29W

FIX NAME
COORDINATES

REMARKS
NO ADDITIONAL AIRSPACE REQUIRED.



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
CHICAGO O'HARE INTL	KORD	RNAV (GPS) RWY 27R	3B	CHICAGO	IL	680	RNAV

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
IVAN BLANCO	AJV-5432	08/14/2018	AERONAUTICAL INFORMATION SPECIALIST

