

**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><b>AIRPORT</b></u> AURORA MUNI	<u><b>AIRPORT ID</b></u> KARR	<u><b>PROCEDURE NAME</b></u> RNAV (GPS) RWY 9	<u><b>ORIGINAL/AMENDMENT</b></u> 2	<u><b>CITY</b></u> CHICAGO/AURORA	<u><b>STATE</b></u> IL
<u><b>AIRPORT ELEVATION</b></u> 712	<u><b>TDZE</b></u> 707	<u><b>SUPERSEDED</b></u> RNAV (GPS) RWY 9	<u><b>ORIGINAL/AMENDMENT</b></u> 1C	<u><b>DATED</b></u> 09/19/2013	<u><b>MAG VAR</b></u> 1W
<u><b>FACILITY</b></u> RNAV	<u><b>COORDINATES OF FACILITIES</b></u>	<u><b>ACTUAL EFFECTIVE DATE</b></u> 13 SEPTEMBER 2018	<u><b>REQUIRED EFFECTIVE DATE</b></u> ROUTINE	<u><b>CANCEL SUSPEND</b></u>	<u><b>EPOCH YEAR</b></u> 1990

**TERMINAL ROUTES**

<u><b>FROM</b></u>	<u><b>FIX TYPE</b></u>	<u><b>TO</b></u>	<u><b>FIX TYPE</b></u>	<u><b>LEG TYPE</b></u>	<u><b>FO/FB</b></u>	<u><b>RNP</b></u>	<u><b>COURSE</b></u>	<u><b>DISTANCE</b></u>	<u><b>ALTITUDE</b></u>
AHMED		JUGER		TF	FB	2.00	021.27	11.86	2700
NUELG		DECAK		TF	FB	2.00	214.87	9.75	2700
JUGER	IAF	TOBBY	NOPT	TF	FB	1.00	010.08	5.08	2700
HERVY	IAF	TOBBY	NOPT	TF	FB	1.00	096.19	6.86	2700
DECAK	IAF	TOBBY	NOPT	TF	FB	1.00	169.82	5.08	2700
TOBBY	IF/IAF	WOLFF		TF	FB	1.00	089.96	6.00	2700
WOLFF	FAF	RW09	MAP	TF	FO	0.30	090.05	6.12	
RW09	MAP	957 MSL		CA			090.05		
957 MSL		HOGIE		DF	FO	1.00			2500

**MISSED APPROACH**

**MAP:**

LPV: DA  
 LNAV/VNAV: DA  
 LNAV: RW09

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2500 DIRECT HOGIE AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)
2. HOLD W TOBBY, RT, 089.96 INBOUND, 2700 FT. IN LIEU OF PT (IAF), MAX 10000.
3. FAC: 090.05      FAF: WOLFF      DIST FAF TO MAP: 6.12      DIST FAF TO THLD: 6.12
4. MIN ALT: TOBBY 2700, WOLFF 2700
5. DIST TO THLD FROM OM:      MM:      IM:      150 HAT:      250 HAT: 0.64
6. MIN GP INCPT: 2700      GP ALT AT FAF : WOLFF 2700      OM:      MM:      IM:
7. GP ANGLE: 3.00      34:1: IS CLEAR      20:1: IS CLEAR      TCH: 45.2
8. MSA FROM: RW09 2600

PBN EQUIPMENT REQUIREMENTS NOTES

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C OR ABOVE 54C.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT AHMED ON V10 SOUTHWEST BOUND, V8 WESTBOUND.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT NUELG ON V177 NORTHWEST BOUND, V172 EASTBOUND.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HERVY ON V6 SOUTHWEST BOUND.  
PBN REQUIREMENTS NOTE: RNP APCH  
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV CAT C/D VISIBILITY TO 1 3/8 SM.  
CHART SPEED ICON IN PLANVIEW AT TOBBY: MAX 230 KIAS.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.  
CHART VDP AT 1.47 NM TO RW09\*  
\*LNAV ONLY  
WAAS CHANNEL #45522  
REFERENCE PATH ID: W09A  
FAS OBST: 950 AAO 414645N/0883601W.  
HOLD E, LT, 270.32 INBOUND  
LTP HAE: 182.5 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	957	1/2	250	957	1/2	250	957	1/2	250	957	1/2	250			
LNAV/VNAV DA	1035	1/2	328	1035	1/2	328	1035	1/2	328	1035	1/2	328			
LNAV MDA	1220	1/2	513	1220	1/2	513	1220	1	513	1220	1	513			
CIRCLING	1220	1	508	1220	1	508	1220	1 1/2	508	1320	2	608			

QUALITY  
18  
CHECKED

**CHANGES - REASONS**

1. ADDED PBN REQUIREMENTS NOTE: RNP APCH. - NAVSPEC REQUIREMENT.
2. TERMINAL ROUTES: COURSE AND DISTANCE FROM AHMED TO JUGER CHANGED FROM 025.64/12.26 TO 021.27/11.86. - JUGER FIX MOVED 1 NM WEST TO ALLOW LESS SEVERE TURN ONTO INTERMEDIATE SEGMENT.
3. TERMINAL ROUTES: COURSE AND DISTANCE FROM NUELG TO DECAK CHANGED FROM 209.75/9.22 TO 214.87/9.75. - DECAK FIX MOVED 1 NM WEST TO ALLOW LESS SEVERE TURN ONTO INTERMEDIATE SEGMENT.
4. TERMINAL ROUTES: COURSE AND DISTANCE FROM JUGER TO TOBBY CHANGED FROM 359.96/5.00 TO 010.08/5.08. - JUGER FIX MOVED 1 NM WEST TO ALLOW LESS SEVERE TURN ONTO INTERMEDIATE SEGMENT.
5. TERMINAL ROUTES: COURSE AND DISTANCE FROM DECAK TO TOBBY CHANGED FROM 179.96/5.00 TO 169.82/5.08. - DECAK FIX MOVED 1 NM WEST TO ALLOW LESS SEVERE TURN ONTO INTERMEDIATE SEGMENT.
6. TERMINAL ROUTES: DISTANCE FROM WOLFF TO RW09 CHANGED FROM 6.01 TO 6.12. - INTERMEDIATE SEGMENT EXTENDED TO 6 NM DUE TO TURN ANGLE CRITERIA.
7. LINE 3: DIST FAF TO MAP AND THLD CHANGED FROM 6.01 TO 6.12. - PFAF/FAF MOVED TO IPDS DERIVED POSITION BASED ON TCH 45.24 FT.
8. LINE 7: TCH CHANGED FROM 45.3 TO 45.2.; ADDED "20:1 IS CLEAR" - AIRNAV 5/24/2018 PENDING DATA USED; NO VISUAL SEGMENT OBSTRUCTIONS FOUND.
9. ADDITIONAL FLIGHT DATA: CHART FAS OBST: 740 TREE 414620N/0882926W CHANGED TO FAS OBST: 950 AAO 414645N/0883601W. - NEW OBSTACLE ANALYSIS.
10. MINIMUMS: LNAV/VNAV VSI CHANGED FROM 3/4 TO 1/2 SM. - NEW VISIBILITY TABLES.
11. MINIMUMS: LNAV CAT D VISIBILITY CHANGED FROM 1 1/4 TO 1. - NEW VISIBILITY TABLES.
12. MINIMUMS: CIRCLING CAT D MDA/HAT AND VISIBILITY CHANGED FROM 1280/568- 2 TO 1320/608- 2. - NEW LARGER CIRCLING RADII PRODUCED HIGHER CONTROLLING OBSTACLE; MATCHED LOC-33.
13. BARO-VNAV CHART NOTE CHANGED FROM "-16C (4F) OR ABOVE 47C (116F)" TO "-20C OR ABOVE 54C." - FRESH 5 YEAR TEMP ANALYSIS CONDUCTED FOR YEARS 2013-2017; FARENHEIT NO LONGER REQUIRED.
14. BARO-VNAV NA WHEN USING CHICAGO ALTIMETER SETTING NOTE MOVED TO BACK OF 8260-9. - ALL REFERENCE TO THE BACKUP ALTIMETER MOVED TO BACK OF 8260-9 PER CRITERIA.
15. VDP NA WITH CHICAGO ALTIMETER SETTING NOTE MOVED TO BACK OF 8260-9. - ALL REFERENCE TO THE BACKUP ALTIMETER MOVED TO BACK OF 8260-9 PER CRITERIA.
16. BACKUP ALTIMETER CHART NOTE MOVED TO BACK OF 8260-9 AND CHANGED FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CHICAGO O'HARE INTL ALTIMETER SETTING AND INCREASE ALL DA/MDA 80 FEET AND LNAV/VNAV ALL CATS VISIBILITY 1/4 MILE." TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CHICAGO O'HARE INTL ALTIMETER SETTING: INCREASE LPV DA TO 1027, LNAV/VNAV DA TO 1105, AND LNAV/VNAV VISIBILITY 1/8 SM; INCREASE ALL MDAS 80 FEET AND ALL C AND D VISIBILITIES 1/4 SM. BARO-VNAV, VDP AND ALTERNATE MINIMUMS NA. - ALL REFERENCE TO THE BACKUP ALTIMETER MOVED TO BACK OF 8260-9 PER CRITERIA.
17. CHART NOTE MOVED TO BACK OF 8260-9 AND CHANGED FROM "FOR INOPERATIVE MALSR WHEN USING CHICAGO O'HARE INTL ALTIMETER SETTING INCREASE LPV ALL CATS VISIBILITY TO 1 1/4 MILE." TO "FOR INOPERATIVE ALS WHEN USING CHICAGO O'HARE INTL ALTIMETER SETTING, INCREASE LPV AND LNAV/VNAV ALL CATS VISIBILITY TO 7/8 SM, INCREASE LNAV CATS C AND D VISIBILITY TO 1 5/8 SM." - VERBIAGE CHANGED AND MOVED TO BACK OF 8260-9 PER CURRENT CRITERIA.
18. FAS DATA: FPAP LAT/LON CHANGED FROM 414613.5100N/0882741.5300W TO 414613.8715N/0882708.2510.
19. FAS DATA: TCH CHANGED FROM 00045.3 TO 00045.2. - TCH CHANGED.
20. FAS DATA: LENGTH OFFSET CHANGED FROM 0000 TO 0768 METERS, COURSE WIDTH FROM 107.25 TO 106.75 - MANUAL CALCULATION.
21. FAS DATA: CRC REMAINDER CHANGED FROM 28E84173 TO EC471787. - MANUAL CALCULATION.
22. ADDITIONAL FLIGHT DATA: ADDED "CHART CIRCLING ICON" - NEW EXPANDED CIRCLING RADII USED.
23. NOTES: "CHART NOTE: DME/DME RNP -0.3 NA" REMOVED. - CRITERIA CHANGED.
24. ADDED CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV CAT C/D VISIBILITY TO 1 3/8 SM. - VISIBILITY TABLES CHANGED.
25. ADDED CHART NOTE: "CHART SPEED ICON IN PLANVIEW AT TOBBY: MAX 230 KIAS. - STEEP BANK ANGLE OCCURS FROM JUGER AND DECAK INITIAL SEGMENTS WHEN TURNING ONTO INTERMEDIATE COURSE.

**COORDINATED WITH:**

**A4A** ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ORD APP CON, ARR ATCT, ZAU, ATA

**FLIGHT CHECKED BY**

SHAWN D MAXWELL

*Digitally signed by*  
**DONALD H LANIER**  
Jun 27, 2018

**OFFICE**

FICO

**DATE**

6/23/18

**DEVELOPED BY**

COLTON CROWDER

*Digitally signed by*  
**COLTON CROWDER**

**OFFICE**

AJV-5431

**DATE**

01/17/2018

**APPROVED BY**

PATRICK MULQUEEN

Mar 16, 2018  
*Digitally signed by*  
**DONALD H LANIER**  
Jun 27, 2018

**OFFICE**

AJV-5430

**DATE**

**TITLE**  
MANAGER

**FAS DATA BLOCK INFORMATION**

<b><u>DATA FIELD</u></b>	<b><u>DATA</u></b>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KARR
RUNWAY	RW09
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W09A
LTP/FTP LATITUDE	414612.5505N
LTP/FTP LONGITUDE	0882907.3115W
LTP/FTP ELLIPSOIDAL HEIGHT	+01825
FPAP LATITUDE	414613.8715N
FPAP LONGITUDE	0882708.2510W
THRESHOLD CROSSING HEIGHT (TCH)	00045.2
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0768
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 CRC REMAINDER	 EC471787

**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02154
FPAP ORTHOMETRIC HEIGHT	+02154