

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> AURORA MUNI | <u>AIRPORT ID</u> KARR | <u>PROCEDURE NAME</u> RNAV (GPS) RWY 15 | <u>ORIGINAL/AMENDMENT</u> 1 | <u>CITY</u> CHICAGO/AURORA | <u>STATE</u> IL |
| <u>AIRPORT ELEVATION</u> 712 | <u>TDZE</u> 712 | <u>SUPERSEDED</u> RNAV (GPS) RWY 15 | <u>ORIGINAL/AMENDMENT</u> ORIG-B | <u>DATED</u> 05/29/2014 | <u>MAG VAR</u> 1W |
| <u>FACILITY</u> RNAV | <u>COORDINATES OF FACILITIES</u> | <u>ACTUAL EFFECTIVE DATE</u> 13 SEPTEMBER 2018 | <u>REQUIRED EFFECTIVE DATE</u> ROUTINE | <u>CANCEL SUSPEND</u> | <u>EPOCH YEAR</u> 1990 |

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> |
|--------------------|------------------------|------------------|------------------------|------------------------|---------------------|-------------------|----------------------|------------------------|------------------------|
| NUELG | IAF | UBEXE | | TF | FB | 1.00 | 152.71 | 4.47 | 2600 |
| UBEXE | IF | WUYFI | | TF | FB | 1.00 | 147.63 | 5.15 | 2300 |
| WUYFI | FAF | RW15 | MAP | TF | FO | 0.30 | 147.66 | 4.85 | |
| RW15 | MAP | 962 MSL | | CA | FB | | | | |
| 962 MSL | | UQITY | | DF | FO | 1.00 | | | 3000 |

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW15

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT UQITY AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**
2. PROFILE STARTS AT UBEXE
3. **FAC:** 147.66 **FAF:** WUYFI **DIST FAF TO MAP:** 4.85 **DIST FAF TO THLD:** 4.85
4. **MIN ALT:** UBEXE 2600, WUYFI 2300
5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **250 HAT:** 0.64
6. **MIN GP INCPT:** 2300 **GP ALT AT FAF :** WUYFI 2300 **OM:** **MM:** **IM:**
7. **GP ANGLE:** 3.00 **34:1:** IS NOT CLEAR **20:1:** IS CLEAR **TCH:** 45.0
8. **MSA FROM:** RW15 2600



PBN EQUIPMENT REQUIREMENTS NOTES

RNP APCH

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C OR ABOVE 54C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT NUELG ON V172 AND V177 NORTHWEST BOUND.
CHART NOTE: RWY 15 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.61 NM TO RW15*
*LNAV ONLY
WAAS CHANNEL #72941
REFERENCE PATH ID: W15A
FAS OBST: 1004 AAO 415038N/0883124W.
HOLD NW, RT, 147.70 INBOUND
LTP HAE: 184 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD

| <u>CATEGORY:</u> | <u>A</u> | | | <u>B</u> | | | <u>C</u> | | | <u>D</u> | | | <u>E</u> | | |
|--------------------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|
| <u>FINAL TYPE</u> | <u>DA/MDA</u> | <u>VIS</u> | <u>HAT/HAA</u> | <u>DA/MDA</u> | <u>VIS</u> | <u>HAT/HAA</u> | <u>DA/MDA</u> | <u>VIS</u> | <u>HAT/HAA</u> | <u>DA/MDA</u> | <u>VIS</u> | <u>HAT/HAA</u> | <u>DA/MDA</u> | <u>VIS</u> | <u>HAT/HAA</u> |
| LPV DA | 962 | 3/4 | 250 | 962 | 3/4 | 250 | 962 | 3/4 | 250 | 962 | 3/4 | 250 | | | |
| LNAV/VNAV DA | 962 | 3/4 | 250 | 962 | 3/4 | 250 | 962 | 3/4 | 250 | 962 | 3/4 | 250 | | | |
| LNAV MDA | 1260 | 1 | 548 | 1260 | 1 | 548 | 1260 | 1 5/8 | 548 | 1260 | 1 5/8 | 548 | | | |
| CIRCLING | 1260 | 1 | 548 | 1260 | 1 | 548 | 1260 | 1 5/8 | 548 | 1320 | 2 | 608 | | | |



CHANGES - REASONS

1. TERMINAL ROUTES: UBEXE TO WUYFI DISTANCE CHANGED FROM 5.22 TO 5.15. - WUYFI FIX MOVED TO NEW IPDS DERIVED LOCATION.
2. TERMINAL ROUTES: WUYFI TO RW15 COURSE AND DISTANCE CHANGED FROM 147.67/4.78 TO 147.66/4.85. - WUYFI FIX MOVED TO NEW IPDS DERIVED LOCATION.
3. TERMINAL ROUTES: RW15 TO 1112 MSL CHANGED TO RW15 TO 962 MSL. - LPV AND LNAV/VNAV DA 962.
4. TERMINAL ROUTES: FROM 1112 MSL TO UQITY CHANGED TO 962 MSL TO UQITY. - LPV AND LNAV/VNAV DA 962.
5. LINE 3: FAC CHANGED FROM 147.67 TO 147.66; DIST FAF TO MAP AND FAF TO THLD CHANGED FROM 4.78 TO 4.85. - WUYFI FIX MOVED TO NEW IPDS DERIVED LOCATION.
6. LINE 6: GS INCPT 2300, AND GS ALT AT WUYFI 2300 ADDED. - LPV AND LNAV/VNAV LINES OF MINIMA ADDED PER FPT CHECKLIST.
7. LINE 7: GS ANGLE 3.00 AND TCH 45.0 ADDED. - LPV AND LNAV/VNAV LINES OF MINIMA ADDED PER FPT CHECKLIST.
8. MINIMUMS: ADDED LPV AND LNAV/VNAV LINES OF MINIMA. - LPV AND LNAV/VNAV LINES OF MINIMA ADDED PER FPT CHECKLIST.
9. MINIMUMS: CIRCLING CAT D MDA/HAA CHANGED FROM 1280/568 TO 1320/608. - NEW LARGER CIRCLING RADII ENCOMPASSES HIGHER TERRAIN; MATCHED LOC-33 ORIG-A.
10. MISSED APPROACH FIRST BLOCK: ADDED LPV: DA, AND LNAV/VNAV: DA. - LPV AND LNAV/VNAV LINES OF MINIMA ADDED PER FPT CHECKLIST.
11. ADDITIONAL FLIGHT DATA: ADDED "DISTANCE TO THLD FROM 250 HAT: 0.64 NM." - LPV HAT EQUALS 250 FT.
12. ADDITIONAL FLIGHT DATA: ADDED "" TO RW15, AND "LNAV ONLY." - LINES OF MINIMA ADDED, ASTERISK DENOTES LNAV IS ONLY PROCEDURE WITH VDP.
13. ADDITIONAL FLIGHT DATA: ADDED WAAS CHANNEL #72941. - VERTICALLY GUIDED APPROACHES ADDED.
14. ADDITIONAL FLIGHT DATA: REMOVED "CHART 1010 TOWER 415143N/0883140W." - TOWER NO LONGER APPEARS NEAR THE FINAL AND INTERMEDIATE SEGMENTS.
15. ADDITIONAL FLIGHT DATA: REMOVED "WUYFI TO RW15: 3.00/45." - NOT REQUIRED ON VERTICALLY GUIDED PROCEDURES.
16. ADDITIONAL FLIGHT DATA: ADDED "WAAS CHANNEL #72941" AND "LTP HAE: 184 M" - APV LINES OF MINIMA ADDED.
17. ADDITIONAL FLIGHT DATA: ADDED "CHART CIRCLING ICON." - LARGER CIRCLING RADII ADDED PER CRITERIA.
18. CHART NOTE: "VGSI AND DESCENT ANGLES NOT COINCIDENT" CHANGED TO "VGSI AND RNAV GLIEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})." - APV APPROACH ADDED.
19. CHART NOTE: "VDP NA WITH CHICAGO O'HARE INTL ALTIMETER SETTING" MOVED TO BACK OF 8260-9. - ASOS ON WMSCR.
20. CHART NOTE: "HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" CHANGED TO "RWY 15 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED." - NEW VERBIAGE WHEN 34:1 PENETRATIONS PRESENT.
21. CHART NOTE: "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CHICAGO O'HARE INTL ALTIMETER SETTING AND INCREASE ALL MDA 80 FEET; INCREASE LNAV CAT C/D AND CIRCLING CAT C VISIBILITY 1/8 MILE." CHANGED TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CHICAGO O'HARE INTL ALTIMETER SETTING: INCREASE DA TO 1033 FEET; INCREASE ALL MDAS 80 FEET, LNAV VISIBILITY CAT C/D AND CIRCLING CAT C VISIBILITY 1/8 SM." - NEW VERBIAGE PER CRITERIA; MOVED TO BACK OF 8260 BASED ON WMSCR.
22. ADDED PBN REQUIREMENTS NOTE: RNP APCH. - NAVSPEC REQUIREMENT.
23. CHANGED PROFILE STARTS AT FIX FROM NUELG TO UBEXE. - NUELG TO UBEXE NOT ON SAME COURSE AS INTERMEDIATE SEGMENT.
24. LINE 4, NUELG 2600 REMOVED. - NUELG TO UBEXE NOT ON SAME COURSE AS INTERMEDIATE SEGMENT.
25. NOTES BLOCK: "@ NA WHEN LOCAL WEATHER NOT AVAILABLE" REMOVED. - NO LONGER APPLICABLE PER CRITERIA MEMO.
26. NOTES BLOCK: "DME/DME RNP -0.3 NA" REMOVED. - NO LONGER APPLICABLE PER CRITERIA MEMO.



COORDINATED WITH:

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

FLIGHT CHECKED BY

SCOTT WIEBE

DEVELOPED BY

COLTON CROWDER

APPROVED BY

PATRICK MULQUEEN

DONALD H LANIER

Jun 27, 2018

Digitally signed by

COLTON CROWDER

Mar 16, 2018

Digitally signed by

DONALD H LANIER

Jun 27, 2018

OFFICE

FICO

OFFICE

AJV-5431

OFFICE

AJV-5430

DATE

4/20/18

DATE

01/23/2018

DATE

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

| <u>DATA FIELD</u> | <u>DATA</u> |
|--|--------------------|
| OPERATION TYPE | 0 |
| SBAS SERVICE PROVIDER IDENTIFIER | 0 |
| AIRPORT IDENTIFIER | KARR |
| RUNWAY | RW15 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W15A |
| LTP/FTP LATITUDE | 414648.0990N |
| LTP/FTP LONGITUDE | 0882910.1625W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +00184 |
| FPAP LATITUDE | 414533.5860N |
| FPAP LONGITUDE | 0882804.8065W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00045.0 |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F |
| GLIDEPATH ANGLE (GPA) | 03.00 |
| COURSE WIDTH AT THRESHOLD | 106.75 |
| LENGTH OFFSET | 1072 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |
| CRC REMAINDER | 810D0EE6 |

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K5 |
| LTP ORTHOMETRIC HEIGHT | +02170 |
| FPAP ORTHOMETRIC HEIGHT | +02170 |