

**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><br>BIGFORK MUNI   | <u>AIRPORT ID</u><br>KFOZ        | <u>PROCEDURE NAME</u><br>RNAV (GPS) RWY 15     | <u>ORIGINAL/AMENDMENT</u><br>ORIG-C       | <u>CITY</u><br>BIGFORK     | <u>STATE</u><br>MN        |
| <u>AIRPORT ELEVATION</u><br>1351 | <u>TDZE</u><br>1351              | <u>SUPERSEDED</u><br>RNAV (GPS) RWY 15         | <u>ORIGINAL/AMENDMENT</u><br>ORIG-B       | <u>DATED</u><br>12/11/2014 | <u>MAG VAR</u><br>2E      |
| <u>FACILITY</u><br>RNAV          | <u>COORDINATES OF FACILITIES</u> | <u>ACTUAL EFFECTIVE DATE</u><br>3 JANUARY 2019 | <u>REQUIRED EFFECTIVE DATE</u><br>ROUTINE | <u>CANCEL/SUSPEND</u>      | <u>EPOCH YEAR</u><br>1995 |

**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> |
|-----------------------|-----------------|-----------------------|-----------------|-----------------|--------------|------------|---------------|-----------------|-----------------|
| YOBRI                 |                 | DUCDO                 |                 | TF              | FB           | 2.00       | 356.35        | 36.25           | 4000            |
| DUCDO                 | IAF             | BOYKI                 | NOPT            | TF              | FB           | 1.00       | 058.49        | 6.75            | 4000            |
| ENEPY                 | IAF             | BOYKI                 | NOPT            | TF              | FB           | 1.00       | 238.72        | 7.48            | 4000            |
| BOYKI                 | IF/IAF          | AWUNA                 |                 | TF              | FB           | 1.00       | 148.60        | 5.00            | 3000            |
| AWUNA                 | FAF             | HOXAS/1.70 NM TO RW15 |                 | TF              | FB           | 0.30       | 148.65        | 3.35            |                 |
| HOXAS/1.70 NM TO RW15 |                 | RW15                  | MAP             | TF              | FO           | 0.30       | 148.65        | 1.70            |                 |
| RW15                  | MAP             | 1720 MSL              |                 | CA              |              |            | 148.65        |                 |                 |
| 1720 MSL              |                 | FOLIM                 |                 | DF              | FO           | 1.00       |               |                 | 4000            |

**MISSED APPROACH**

**MAP:**

LP: RW15  
LNAV: RW15

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 4000 DIRECT FOLIM AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



**PROFILE:**

- 1. **PT**      **SIDE OF COURSE**                      **OUTBOUND**                      **FT WITHIN**                      **MILES OF (IAF)**
- 2. HOLD NW BOYKI, RT, 148.60 INBOUND, 4000 FT. IN LIEU OF PT (IAF), MAX 6000.
- 3. **FAC:** 148.65      **FAF:** AWUNA                      **DIST FAF TO MAP:** 5.05                      **DIST FAF TO THLD:** 5.05
- 4. **MIN ALT:** BOYKI 4000, AWUNA 3000, HOXAS/1.70 NM TO RW15 1920
- 5. **DIST TO THLD FROM OM:**                      **MM:**                      **IM:**                      **150 HAT:**                      **GS ANT:**
- 6. **MIN GP INCPT:**                      **GP ALT AT FAF :**                      **OM:**                      **MM:**                      **IM:**
- 7. **GP ANGLE:**                      **34:1:** IS NOT CLEAR      **20:1:** IS CLEAR                      **TCH:**
- 8. **MSA FROM:** RW15 3100

**PBN REQUIREMENTS NOTE:**

RNP APCH

**NOTES:**

CHART NOTE: RWY 15 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT YOBRI ON V430 EAST BOUND.  
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ENEPY ON V217 SOUTHEAST BOUND.

**ADDITIONAL FLIGHT DATA:**

CHART BEAVER MOA  
 AWUNA TO RW15: 3.00/40.  
 CHART VDP AT 1.03 NM TO RW15  
 WAAS CHANNEL #78126  
 REFERENCE PATH ID: W15A  
 CHART FAS OBST: 1461 TREE 474837N/0934030W.  
 HOLD SE, RT, 328.79 INBOUND  
 LTP HAE: 382.6 M

**MINIMUMS:**

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

**ALTERNATE:** NA  STANDARD

| <b>CATEGORY:</b> | <b>A</b>          |               |            | <b>B</b>       |               |            | <b>C</b>       |               |            | <b>D</b>       |               |            | <b>E</b>       |               |            |                |
|------------------|-------------------|---------------|------------|----------------|---------------|------------|----------------|---------------|------------|----------------|---------------|------------|----------------|---------------|------------|----------------|
|                  | <b>FINAL TYPE</b> | <b>DA/MDA</b> | <b>VIS</b> | <b>HAT/HAA</b> | <b>DA/MDA</b> | <b>VIS</b> | <b>HAT/HAA</b> | <b>DA/MDA</b> | <b>VIS</b> | <b>HAT/HAA</b> | <b>DA/MDA</b> | <b>VIS</b> | <b>HAT/HAA</b> | <b>DA/MDA</b> | <b>VIS</b> | <b>HAT/HAA</b> |
| LP MDA           | 1720              | 1             | 369        | 1720           | 1             | 369        |                | NA            |            |                | NA            |            |                |               |            |                |
| LNAV MDA         | 1740              | 1             | 389        | 1740           | 1             | 389        |                | NA            |            |                | NA            |            |                |               |            |                |
| CIRCLING         | 1780              | 1             | 429        | 1820           | 1             | 469        |                | NA            |            |                | NA            |            |                |               |            |                |



**CHANGES - REASONS**

- H-I-L AND MISSED HOLDING CHANGED FROM 3000 TO 4000, ADDED CLIMB IN HOLD TO MISSED APPROACH. - PER FLIGHT CHECK 3000 UNSAT DUE TO COMMS.
- TERMINAL ROUTES: FEEDER, INITIALS ALTITUDE RAISED FROM 3000 TO 4000. - TO MATCH RAISED H-I-L ALTITUDE
- ADDED CHART VDP AT 1.03 NM TO RW15. - 20:1 NO LONGER PENETRATED.
- ADDED 20:1 CLEAR. - 20:1 NO LONGER PENETRATED, IAW 8260.19 8-6-7.
- ADDED PBN REQUIREMENTS NOTE: RNP APCH, REMOVED DME/DME RNP-0.3 NA. - IAW 8260.19 8-6-8
- INTERMEDIATE SEGMENT RNP CODE CHANGED FROM 0.50 TO 1.00. - IAW 8260.19 4-6-10-(F)
- REMOVED CIRCLING TO RWY 33 NA AT NIGHT. - RWY 33 NO LONGER HAS 20:1 PENETRATIONS.
- CHANGED MIN ALTITUDE AT BOYKI FROM 3000 TO 4000 - TO MATCH H-I-L.
- BACK UP ALTIMETER CHART NOTE MOVED TO BACK OF 8260-9 FOR CONTINGENCY PURPOSES.
- @ NA WHEN LOCAL WEATHER NOT AVAILABLE NOTE REMOVED. - BOTH ALTIMETER SOURCES ON SERVICE-A.

10/09/18: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 08/13/18.

1. THRE CHANGED TO TDZE. NO CHANGE TO MINIUIMS.

**COORDINATED WITH:**

**A4A**  **ALPA**  **AOPA**  **APA**  **HAI**  **NBAA**  **OTHER:** AMGR, ZMP

*Digitally signed by*

**FLIGHT CHECKED BY**

CHRISTOPHER DANIEL FORMAN

**DAVID DANNER**

Oct 10, 2018

**OFFICE**

FIOG

**DATE**

09/27/2018

**DEVELOPED BY**

LEO PALMER

*Digitally signed by*

**LEO PALMER**

Oct 09, 2018

**OFFICE**

AJV-5421

**DATE**

08/13/2018

**APPROVED BY**

JULIE MORGAN

*Digitally signed by*

**DAVID DANNER**

Oct 10, 2018

**OFFICE**

AJV-5420

**DATE**

**TITLE**  
MANAGER



FAS DATA BLOCK INFORMATION

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|--|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KFOZ          |
| RUNWAY                                   | RW15          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W15A          |
| LTP/FTP LATITUDE                         | 474719.3615N  |
| LTP/FTP LONGITUDE                        | 0933917.9005W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +03826        |
| FPAP LATITUDE                            | 474601.7100N  |
| FPAP LONGITUDE                           | 0933813.2400W |
| 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                            | 1528          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 0.0           |
| <br>                                     |               |
| CRC REMAINDER                            | E63F77B3      |

ADDITIONAL PATH POINT RECORD INFORMATION

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K3     |
| LTP ORTHOMETRIC HEIGHT  | +04118 |
| FPAP ORTHOMETRIC HEIGHT | +04118 |

