

US DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

**RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE  
TITLE 14 CFR PART 97.33**

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| TERMINAL ROUTES |                   |                     |          | MISSED APPROACH                        |
|-----------------|-------------------|---------------------|----------|--|
| FROM            | TO                | COURSE AND DISTANCE | ALTITUDE |  |
| YULNU (IAF)     | GOSDE (NOPT) (FB) | 059.18 / 19.93      | 2500     | LPV: DA<br>LNAV/VNAV: DA<br>LNAV: RW10 |
| GOSDE (IF/IAF)  | IMATE (FB)        | 097.27 / 6.00       | 2000     |  |
| IMATE (FAF)     | RW10 (MAP) (FO)   | 097.36 / 4.17       | 3000     | CLIMB TO 3000 DIRECT HALGI AND HOLD.   |
| RW10 (MAP)      | 868 MSL           | 097.36              |          |  |
| 868 MSL         | HALGI (FO)        |                     |          |  |

**ADDITIONAL FLIGHT DATA:**  
HOLD E, RT, 277.61 INBOUND.  
CHART FAS OBST: 797 TREE 441655N/0861652W  
CHART FAS OBST: 821 TREE 441700N/0861802W  
DISTANCE TO THLD FROM 250 HATH: 0.62 NM.  
CHART VDP AT 1.36 MILES TO RW10\*  
\*LNAV ONLY.  
WAAS CHANNEL # 60933  
REFERENCE PATH ID: W10A  
LTP HAE: 153.3 M

- PT        SIDE OF COURSE        OUTBOUND        FT WITHIN        MILES OF        (IAF)
- HOLD W GOSDE, RT, 097.27 INBOUND, 2500 FT. IN LIEU OF PT (IAF)
- FAC: 097.36 FAF: IMATE DIST FAF TO MAP: 4.17 THLD: 4.17
- MIN. ALT: GOSDE 2500, IMATE 2000
- DIST TO THLD FROM OM:        MM:        IM:        150 HAT:        100 HAT:        GS ANT:
- MIN GS INCPT: 2000 GS ALT AT: IMATE 2000 OM:        MM:        IM:
- GS ANGLE: 3.00 TCH: 53.0 34:1 IS NOT CLEAR
- MSA FROM: RW10 3600

MAG VAR: 6W EPOCH YEAR: 2015

| MINIMUMS        |  |       |         |        |       |         |                |       |         |            |       |         |        |     |         |
|-----------------|--|-------|---------|--------|-------|---------|----------------|-------|---------|------------|-------|---------|--------|-----|---------|
| TAKEOFF:        | SEE FAA FORM 8260-15A FOR THIS AIRPORT |       |         |        |       |         | ALTERNATE: N A |       |         | STANDARD @ |       |         |        |     |         |
| CATEGORY ==>>>> | A                                      |       |         | B      |       |         | C              |       |         | D          |       |         | E      |     |         |
|                 | DH/MDA                                 | VIS   | HAT/HAA | DH/MDA | VIS   | HAT/HAA | DH/MDA         | VIS   | HAT/HAA | DH/MDA     | VIS   | HAT/HAA | DH/MDA | VIS | HAT/HAA |
| LPV DA          | 868                                    | 3/4   | 250     | 868    | 3/4   | 250     | 868            | 3/4   | 250     | 868        | 3/4   | 250     |        |     |         |
| LNAV/VNAV DA    | 1088                                   | 1 5/8 | 470     | 1088   | 1 5/8 | 470     | 1088           | 1 5/8 | 470     | 1088       | 1 5/8 | 470     |        |     |         |
| LNAV MDA        | 1080                                   | 1     | 462     | 1080   | 1     | 462     | 1080           | 1 3/8 | 462     | 1080       | 1 3/8 | 462     |        |     |         |
| CIRCLING        | 1120                                   | 1     | 499     | 1160   | 1     | 539     | 1200           | 1 1/2 | 579     | 1300       | 2 1/4 | 679     |        |     |         |

NOTES:  
CHART NOTE: NIGHT LANDING RWY 1/19 NA.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F).  
CHART NOTE: DME/DME RNP-0.3 NA.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT YULNU ON V26 NORTHWEST BOUND.  
(SEE FORM 8260-10)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.  
@ CAT D 800-2 1/4



|                                |   |                              |  |   |
|--------------------------------|---|------------------------------|--|---|
| CITY AND STATE<br>MANISTEE, MI | ELEVATION: 621 THRE: 618<br>AIRPORT NAME:<br>MANISTEE CO.-BLACKER | FACILITY IDENTIFIER:<br>RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE:<br>RNAV (GPS) RWY 10, ORIG-A<br>29 MAY 2014 | SUP: RNAV (GPS) RWY 9<br>AMDT: ORIG<br>DATED 05/02/2013 |
|--------------------------------|---|------------------------------|--|---|

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**RNAV - STANDARD**  
**INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

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NOTES, (CONT.):  
 CHART PROFILE NOTE: VGS1 AND RNAV GLIDEPATH NOT COINCIDENT.  
 CHART NOTE: BARO VNAV AND VDP NA WITH LUDINGTON ALTIMETER SETTING.  
 CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LUDINGTON ALTIMETER SETTING AND INCREASE ALL DA 50 FEET AND ALL MDA 60 FEET. INCREASE LPV VISIBILITY ALL CATS 1/4 MILE, LNAV/VNAV VISIBILITY ALL CATS 1/8 MILE. INCREASE LNAV CATS C/D VISIBILITY 1/8 MILE, AND CIRCLING CAT C VISIBILITY 1/4 MILE.

|                                       |  |                                     |   |                              |
|---------------------------------------|--|-------------------------------------|---|------------------------------|
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|                                       | AIRPORT NAME:<br><b>MANISTEE CO.-BLACKER</b> |                                     |   | AMDT: <b>ORIG</b>            |
|                                       |  |                                     |   | DATED: <b>05/02/2013</b>     |

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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FAS DATA BLOCK INFORMATION

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|--|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KMBL          |
| RUNWAY                                   | RW10          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W10A          |
| LTP/FTP LATITUDE                         | 441622.1565N  |
| LTP/FTP LONGITUDE                        | 0861517.3970W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +01533        |
| FPAP LATITUDE                            | 441619.9200N  |
| FPAP LONGITUDE                           | 0861313.4300W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00053.0       |
| 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 F7795E93

ADDITIONAL PATH POINT RECORD INFORMATION

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K5     |
| LTP ORTHOMETRIC HEIGHT  | +01883 |
| FPAP ORTHOMETRIC HEIGHT | +01883 |

|                                       |  |                                     |  |                              |
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|                                       | AIRPORT NAME:<br><b>MANISTEE CO.-BLACKER</b> |                                     |  | AMDT: <b>ORIG</b>            |
|                                       |  |                                     |  | DATED: <b>05/02/2013</b>     |



**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
 FLIGHT STANDARDS SERVICES - FAR PART 97.33

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ARINC SUMMARY - 424-18 - RNAV (GPS)

| ROUTES | TRANSITION | FIX   | SEQ | USE  | PATH | TURN | FO/FB | RNP | MAG(TRUE)      | DISTANCE | ALTITUDE | SPEED |
|--------|------------|-------|-----|------|------|------|-------|-----|----------------|----------|----------|-------|
|        | GOSDE      | GOSDE | 010 | IAF  | HF   | R    | FO    |     | 097.3 (091.3T) | 004.0    | AA 02500 |       |
|        | YULNU      | YULNU | 010 | IAF  | IF   |      | FB    |     |                |          |          |       |
|        | YULNU      | GOSDE | 020 |      | TF   |      | FB    | 1.0 | 059.2 (053.2T) | 019.9    | AA 02500 |       |
|        |            | GOSDE | 010 | FACF | IF   |      | FB    |     |                |          | AA 02500 |       |
|        |            | IMATE | 020 | FAF  | TF   |      | FB    | 0.5 | 097.3 (091.3T) | 006.0    | AA 02000 |       |
|        |            | RW10  | 030 | MAP  | TF   |      | FO    | 0.3 | 097.4 (091.4T) | 004.2    | AT 00671 |       |

| MISSED APPROACH | FIX   | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG(TRUE)      | DISTANCE | ALTITUDE | SPEED |
|-----------------|-------|-----|-----|------|------|-------|-----|----------------|----------|----------|-------|
|                 |       | 040 |     | CA   |      | FB    |     | 097.4 (091.4T) |          | AA 00868 |       |
|                 | HALGI | 050 |     | DF   |      | FO    |     |                |          | AA 03000 |       |
|                 | HALGI | 060 |     | HM   | R    | FO    |     | 277.6 (271.6T) | 004.0    | AA 03000 |       |

| POINT DATA | WAYPOINT | LAT IN SECS | LONG IN SECS | LAT IN MINS | LONG IN MINS |
|------------|----------|-------------|--------------|-------------|--------------|
|            | GOSDE    | N441636.52  | W0862926.84  | N4416.609   | W08629.447   |
|            | HALGI    | N441604.57  | W0855952.72  | N4416.076   | W08559.879   |
|            | IMATE    | N441628.26  | W0862105.89  | N4416.471   | W08621.098   |
|            | YULNU    | N440442.03  | W0865139.18  | N4404.701   | W08651.653   |
|            | RW10     | N441622.16  | W0861517.40  | N4416.369   | W08615.290   |

| RUNWAY DATA | RWY  | THRESHOLD ELEVATION | TCH |
|-------------|------|---------------------|-----|
|             | RW10 | 00618               | 53  |

|                                       |   |   |   |                              |
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