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|--|--------|---|---------|--|-------|---------------------------------|--------|---|---------|---|-----|--|--------|-----|---------|--|--|
| US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION | | RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33 | | Bearings, headings, courses, 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 in feet RVR. | | | | | | | | | | | | | |
| TERMINAL ROUTES | | | | | | | | | | MISSED APPROACH | | | | | | | |
| FROM | | TO | | COURSE AND DISTANCE | | | | ALTITUDE | | LPV: DA LNAV/VNAV: DA LNAV: RW32 | | | | | | | |
| USETY (IF/IAF) | | VUGGI (FB) | | 320.18 / 6.10 | | | | 5000 | | CLIMB TO 3700 THEN CLIMBING RIGHT TURN TO 6000 DIRECT USETY AND HOLD. | | | | | | | |
| VUGGI (FAF) | | JESIP/2.50 NM TO RW32 (FB) | | 320.13 / 2.78 | | | | | | | | | | | | | |
| JESIP/2.50 NM TO RW32 | | RW32 (MAP) (FO) | | 320.13 / 2.50 | | | | | | | | | | | | | |
| RW32 (MAP) | | 3700 MSL | | 320.13 | | | | 3700 | | | | | | | | | |
| 3700 MSL | | USETY (FO) | | | | | | 6000 | | ADDITIONAL FLIGHT DATA: CHART FAS OBST: 3335 TREE 430928N/1014312W DISTANCE TO THLD FROM 339 HAT: 0.99 NM. WAAS CHANNEL # 77540 REFERENCE PATH ID: W32A CHART CIRCLING ICON. CHART PINE RIDGE ASOS. LTP HAE: 979.3 M | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) | | | | | | | | | | | | | | | | | |
| 2. HOLD SE USETY, RT, 320.18 INBOUND, 6000 FT. IN LIEU OF PT (IAF) | | | | | | | | | | | | | | | | | |
| 3. FAC: 320.13 FAF: VUGGI DIST FAF TO MAP: 5.28 THLD: 5.28 | | | | | | | | | | | | | | | | | |
| 4. MIN. ALT: USETY 6000, VUGGI 5000, JESIP/2.50 NM TO RW32 4100* | | | | | | | | | | | | | | | | | |
| 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ | | | | | | | | | | | | | | | | | |
| 6. MIN GS INCPT: 5000 GS ALT AT: VUGGI 5000 OM: _____ MM: _____ IM: _____ | | | | | | | | | | | | | | | | | |
| 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS CLEAR | | | | | | | | | | | | | | | | | |
| 8. MSA FROM: _____ | | | | | | | | | | | | | | | | | |
| MAG VAR: 6E EPOCH YEAR: 2020 | | | | | | | | | | | | | | | | | |
| MINIMUMS | | | | | | | | | | | | | | | | | |
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT | | | | | | | | | | ALTERNATE: N A X | | | | | | | |
| 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 | 3633 | 1 1/4 | 339 | 3633 | 1 1/4 | 339 | 3633 | 1 1/4 | 339 | | NA | | | | | | |
| LNAV/VNAV DA | 3633 | 1 1/4 | 339 | 3633 | 1 1/4 | 339 | 3633 | 1 1/4 | 339 | | NA | | | | | | |
| LNAV MDA | 3680 | 1 | 386 | 3680 | 1 | 386 | 3680 | 1 1/8 | 386 | | NA | | | | | | |
| | | | | | | | | | | | | | | | | | |
| CIRCLING | 3860 | 1 | 565 | 3920 | 1 | 625 | 4100 | 2 1/4 | 805 | | NA | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| NOTES: CHART NOTE: BARO-VNAV NA. CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). *LNAV ONLY (CONTINUED ON PAGE 2) | | | | | | | | | | | | | | | | | |
| CITY AND STATE MARTIN, SD | | ELEVATION: 3295 TDZE: 3294 AIRPORT NAME: MARTIN MUNI | | | | FACILITY IDENTIFIER: RNAV | | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 32, ORIG-A 21 JULY 2016 | | | | SUP: AMDT: ORIG DATED 05/26/2016 | | | | | |

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

NOTES, (CONT.):

*LNAV ONLY

CHART NOTE: USE PINE RIDGE ALTIMETER SETTING.

| TAA | FROM | TO | ALT |
|-----|-------------------------|---------------------|------|
| 1. | 230/30 CW 050/30 (NOPT) | USETY (IF/IAF) (FB) | 6000 |
| 2. | 050/30 CW 230/30 | USETY (IF/IAF) (FO) | 6000 |

QUALITY
16
CHECKED

| | | | | |
|------------------------------|--|---------------------------------|---|-------------------|
| CITY AND STATE MARTIN, SD | ELEVATION: 3295 TDZE: 3294 AIRPORT NAME: MARTIN MUNI | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 32, ORIG-A 21 JULY 2016 | SUP: |
| | | | | AMDT: ORIG |
| | | | | DATED: 05/26/2016 |

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

Bearings, headings, courses, 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 in feet RVR.

FAS DATA BLOCK INFORMATION

| <u>DATA FIELD</u> | <u>DATA</u> |
|--|---------------|
| OPERATION TYPE | 0 |
| SBAS SERVICE PROVIDER IDENTIFIER | 0 |
| AIRPORT IDENTIFIER | 9V6 |
| RUNWAY | RW32 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W32A |
| LTP/FTP LATITUDE | 430941.1810N |
| LTP/FTP LONGITUDE | 1014231.7900W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +09793 |
| FPAP LATITUDE | 431055.1280N |
| FPAP LONGITUDE | 1014339.7480W |
| 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 | 1624 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |
| <u>CRC REMAINDER</u> | 88D642E4 |

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K3 |
| LTP ORTHOMETRIC HEIGHT | +09990 |
| FPAP ORTHOMETRIC HEIGHT | +09990 |

QUALITY
16
CHECKED

| | | | | | |
|----------------------------------|---|-----------------------------------|-------------------------------------|---|-------------------|
| CITY AND STATE MARTIN, SD | ELEVATION: 3295 AIRPORT NAME: MARTIN MUNI | TDZE: 3294 MARTIN MUNI | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 32, ORIG-A 21 JULY 2016 | SUP: |
| | | | | | AMDT: ORIG |
| | | | | | DATED: 05/26/2016 |

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

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ARINC SUMMARY - 9V6

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|------------|-------------|-------------|-------|-----|------------|------------|-------|-------------|---------------|----------------|------------------------------------|---------------------------------------|----------------------------|
| USETY | 010 | USETY | HF | FO | | 320.2 | | | R | | | AA 06000 | | EE A |
| | 010 | USETY | IF | FB | | | | | | | | AA 06000 | | E I |
| | 020 | VUGGI | TF | FB | 1.0 | 320.2 | | | | | | AA 05000 | | E F |
| | 021 | JESIP | TF | FB | 0.3 | 320.1 | | 3.00 | | | | AA 04100 GS 04113 | | E S |
| | 030 | RW32 | TF | FO | 0.3 | 320.1 | | 3.00 | | | | AT 03318 | | GY M |
| | 040 | | CA | FB | | 320.1 | | | | | | AA 03700 | | M |
| | 050 | USETY | DF | FO | | | | | R | | | AA 06000 | | EY |
| | 060 | USETY | HM | FO | | 320.2 | | | R | | | AA 06000 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| JESIP | N430736.67 | W1014037.49 |
| USETY | N430014.12 | W1013352.51 |
| VUGGI | N430518.04 | W1013830.41 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|-----------------------|------------------------|------------------------|------------------|
| RW32 | N430941.18 | W1014231.79 | 03278 | 40 |

QUALITY
16
CHECKED

| | | | | |
|-------------------------------------|--|-------------------------|--|--------------------------|
| CITY AND STATE MARTIN, SD | ELEVATION: 3295 TDZE: 3294 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 32, ORIG-A | SUP: |
| | AIRPORT NAME: MARTIN MUNI | RNAV | 21 JULY 2016 | AMDT: ORIG |
| | | | | DATED: 05/26/2016 |