

**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> TAMPA INTL | <u>AIRPORT ID</u> KTPA | <u>PROCEDURE NAME</u> RNAV (GPS) RWY 10 | <u>ORIGINAL/AMENDMENT</u> 2A | <u>CITY</u> TAMPA | <u>STATE</u> FL |
| <u>AIRPORT ELEVATION</u> 26 | <u>TDZE</u> 22 | <u>SUPERSEDED</u> RNAV (GPS) RWY 10 | <u>ORIGINAL/AMENDMENT</u> 2 | <u>DATED</u> 06/25/2015 | <u>MAG VAR</u> 5W |
| <u>FACILITY</u> RNAV | <u>COORDINATES OF FACILITIES</u> | <u>ACTUAL EFFECTIVE DATE</u> 5 DECEMBER 2019 | <u>REQUIRED EFFECTIVE DATE</u> ROUTINE | <u>CANCEL/SUSPEND</u> | <u>EPOCH YEAR</u> 2010 |

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> |
|-------------|-----------------|-----------|-----------------|-----------------|--------------|------------|---------------|-----------------|-----------------|
| PIE VORTAC | | POLVY | | TF | FO | 1.00 | 337.46 | 4.59 | 2000 |
| POLVY | IF/IAF | ZEXYY | | TF | FB | 1.00 | 096.64 | 5.29 | 1600 |
| ZEXYY | FAF | RW10 | MAP | TF | FO | 0.30 | 096.69 | 4.79 | |
| RW10 | MAP | 272 MSL | | CA | | | 096.69 | | |
| 272 MSL | | RUYKI | | DF | FO | 1.00 | | | 2000 |

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW10

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 DIRECT RUYKI AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD W POLVY, RT, 096.64 INBOUND, 2000 FT. IN LIEU OF PT (IAF), MAX 6000.
3. FAC: 096.69 FAF: ZEXYY DIST FAF TO MAP: 4.79 DIST FAF TO THLD: 4.79
4. MIN ALT: POLVY 2000, ZEXYY 1600
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 250 HAT: 0.63 GS ANT: MM: IM:
6. MIN GP INCPT: 1600 GP ALT AT FAF : ZEXYY 1600 OM: MM: IM:
7. GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 57.0
8. MSA FROM: RW10 2700

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 2°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON PIE VORTAC AIRWAY RADIALS 336 CW 067.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON
CHART VDP AT 1.32 NM TO RW10*
*LNAV ONLY
WAAS CHANNEL #77720
REFERENCE PATH ID: W10A
CHART FAS OBST: 233 CTRL TWR 275852N/0823203W.
HOLD E, RT, 276.83 INBOUND
LTP HAE: -20.2 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 1000-3

| 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 | 272 | 1 | 250 | 272 | 1 | 250 | 272 | 1 | 250 | 272 | 1 | 250 | | | |
| LNAV/VNAV DA | 436 | 1 3/8 | 414 | 436 | 1 3/8 | 414 | 436 | 1 3/8 | 414 | 436 | 1 3/8 | 414 | | | |
| LNAV MDA | 480 | 1 | 458 | 480 | 1 | 458 | 480 | 1 3/8 | 458 | 480 | 1 3/8 | 458 | | | |
| CIRCLING | 560 | 1 | 534 | 560 | 1 | 534 | 680 | 1 3/4 | 654 | 980 | 3 | 954 | | | |



CHANGES - REASONS

1. CHANGED TDZE ELEVATION FROM 20 TO 22 - DUE TO NEW AIRPORT SURVEY.
2. TERMINAL ROUTES, INTERMEDIATE SEGMENT POLVY (IF/IAF) TO ZEXYY RNP VALUE UPDATED FROM 0.5 TO 1.0 - UPDATED CRITERIA.
3. TERMINAL ROUTES, MISSED DF SEGMENT 270 MSL TO RUYKI RNP VALUES UPDATED FROM 0.5 TO 1.0 - RNP VALUE CORRECTED FOR MISSED DF SEGMENT PER UPDATED CRITERIA.
4. TERMINAL ROUTES, 270 MSL TO RUYKI CHANGED TO 272 MSL TO RUYKI - TDZE ELEVATION CHANGED, CA ALTITUDE MUST BE THE LOWEST OF DA, MDA OR 400 ABOVE AIRPORT ELEVATION.
5. PROFILE LINE 2, ADDED MAX 6000. - IAW 8260.19H PARA 8-6-7B(2).
6. ADDITIONAL FLIGHT DATA, DELETED 'DISTANCE TO THLD FROM 250 HAT: 0.60' - UPDATED CRITERIA.
7. ADDED PROFILE LINE 5, 'DISTANCE TO THLD FROM 250 HAT: 0.63' - UPDATED EVALUATION.
8. PROFILE LINE 7, NOTE ADDED: 20:1 IS CLEAR - NO STRAIGHT IN 20:1 PENETRATIONS.
9. ADDED 'RNP APCH' TO PBN REQUIREMENTS NOTES - IAW 8260.19H, PARA 8-6-8B(1) AND MEMO 266 DATED 7/18/2018.
10. DELETED 'CHART NOTE: DME/DME RNP-0.3 NA' - IAW 8260.19H, PARA 4-6-10E AND MEMO 266 DATED 7/18/2018.
11. CHANGED 'CHART NOTE: UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 2C (36F) OR ABOVE 54C (130F)' TO 'CHART NOTE: UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 2C OR ABOVE 54C' - IAW 8260.19H, PARA 8-6-9S.
12. ADDED 'CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})' - IAW 8260.19H, PARA 8-6-9M.
13. ADDITIONAL FLIGHT DATA, NOTE CHANGED FROM 'CHART VDP AT 1.27 NM TO RW10' TO 'CHART VDP AT 1.32 NM TO RW10' - UPDATED EVALUATION.
14. ADDITIONAL FLIGHT DATA, NOTE CHANGED FROM 'LTP HAE: -20 M' TO 'LTP HAE: -20.2 M' - UPDATED EVALUATION.
15. LPV MINIMA CHANGED FROM 270 DA/250 HAT TO 272 DA/250 HAT FOR ALL CATS - RECALCULATED MINIMA BASED ON 250 HAT + 22 TDZE.
16. RAISED LPV VISIBILITY ALL CATS FROM 3/4 TO 1 - VISIBILITY INCREASED DUE TO RPZ REQUIREMENTS, PER AIRPORT AUTHORITY.
17. LNAV/VNAV MINIMA CHANGED FROM 432 DA/412 HAT TO 436 DA/414 HAT FOR ALL CATS - 436 HAT BASED ON UPDATED EVALUATION.
18. LNAV MINIMA CHANGED FROM 460 HAT TO 458 HAT FOR ALL CATS - RECALCULATED MINIMA BASED ON 480 HAT - 22 TDZE.
19. COORDINATED WITH, ADDED 'A4A' - PART 139 AIRPORT.
20. LTP/FTP LONGITUDE CHANGED FROM 0823204.3515W TO 0823204.3495W - UPDATED AIRNAV VALUES.
21. LTP/FTP ELLIPSOIDAL HEIGHT CHANGED FROM -2000 TO -00202 - UPDATED AIRNAV VALUES.
22. CRC REMAINDER CHANGED FROM CBCBCA7D TO 2F1A8E19 - UPDATED AIRNAV VALUES.
23. ADDITIONAL PATH POINT RECORD INFORMATION, LTP/FPAP ORTHOMETRIC HEIGHT CHANGED FROM +00049 TO +00044 - UPDATED AIRNAV VALUES.

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZMA, ZJX, TPA APP CON, TPA ATCT, AMGR

FLIGHT CHECKED BY

JEFFREY ECKMAN

OFFICE

Digitally signed by

DATE

FICO DAVID TEFFETELLER 9/24/19

Sep 30, 2019

DEVELOPED BY

DAVID TEFFETELLER (RAFAEL A MARTINEZ)

Digitally signed by

OFFICE

DATE

DAVID TEFFETELLER AJV-A433 06/26/2019

Aug 19, 2019

APPROVED BY

GEORGE DAVIS

OFFICE

Digitally signed by

DATE

AJV-A430 DAVID TEFFETELLER

Sep 30, 2019

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

| <u>DATA FIELD</u> | <u>DATA</u> |
|--|---------------|
| OPERATION TYPE | 0 |
| SBAS SERVICE PROVIDER IDENTIFIER | 0 |
| AIRPORT IDENTIFIER | KTPA |
| RUNWAY | RW10 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W10A |
| LTP/FTP LATITUDE | 275814.8425N |
| LTP/FTP LONGITUDE | 0823204.3495W |
| LTP/FTP ELLIPSOIDAL HEIGHT | -00202 |
| FPAP LATITUDE | 275812.1350N |
| FPAP LONGITUDE | 0823023.7690W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00057.0 |
| 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 | 2F1A8E19 |

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K7 |
| LTP ORTHOMETRIC HEIGHT | +00044 |
| FPAP ORTHOMETRIC HEIGHT | +00044 |