

**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 ID</u> AGC	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 28	<u>ORIGINAL/AMENDMENT</u> 3C	<u>CITY</u> PITTSBURGH	<u>STATE</u> PA
<u>AIRPORT ELEVATION</u> 1252	<u>TDZE</u> 1251	<u>SUPERSEDED</u> RNAV (GPS) RWY 28	<u>ORIGINAL/AMENDMENT</u> 3B	<u>DATED</u> 11/03/2022
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 10 JULY 2025	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 9W
				<u>EPOCH YEAR</u> 2000
				<u>CANCEL/SUSPEND</u>

TERMINAL ROUTES

THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 25-15.

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
HOMEE		KATKE		TF	FB	1.00	229.87	12.36	4000
MILWO		KATKE		TF	FB	1.00	298.80	9.46	4000
KATKE	IAF	MILKE		TF	FB	1.00	279.14	4.25	3000
MILKE	IF	LENLE		TF	FB	1.00	279.08	6.00	3000
LENLE	FAF	RW28	MAP	TF	FO	0.30	278.99	5.25	
RW28	MAP	1501 MSL		CA			278.99		
1501 MSL		MESIE		DF	FB	1.00			
MESIE		AGC VOR/DME		TF	FO	1.00	197.13	4.57	3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW28

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT MESIE AND ON 197.13 TRACK TO AGC VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT
- SIDE OF COURSE
- OUTBOUND
- FT WITHIN
- MILES OF (IAF)
- PROFILE STARTS AT MILKE
- FAC: 278.99 FAF: LENLE DIST FAF TO MAP: 5.25 DIST FAF TO THLD: 5.25
- MIN ALT: MILKE 3000, LENLE 3000
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 250 HAT: 0.61 GS ANT: IM:
- MIN GP INCPT: 3000 GP ALT AT PFAF: LENLE 3000 OM: MM:
- GP ANGLE: 3.05 34:1: IS CLEAR 20:1: IS CLEAR TCH: 51.0
- MSA FROM: RW28 3800

QUALITY
25
CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.

CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 1900.

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV, FOR INOPERATIVE ALS INCREASE LNAV/VNAV ALL CATS TO RVR 4500.

CHART NOTE: CIRCLING RWY 13 NA AT NIGHT. 

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MILWO ON V12 EASTBOUND.

ADDITIONAL FLIGHT DATA:

HOLD SW, RT, 056.00 INBOUND.

CHART 1509 TOWER (42-000011) 402151N/0794845W.

CHART VDP AT 1.04 NM TO RW28.

WAAS CHANNEL # 65625

REFERENCE PATH ID: W28A

CHART CIRCLING ICON.

LTP HAE: 347.4 M

MINIMUMS:**TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT****ALTERNATE:** NA ☐ STANDARD - CAT D 800-2 1/4, NA WHEN CONTROL TOWER CLOSED.

<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	1501	4000	250	1501	4000	250	1501	4000	250	1501	4000	250			
LNAV/VNAV DA	1546	4000	295	1546	4000	295	1546	4000	295	1546	4000	295			
LNAV MDA	1640	4000	389	1640	4000	389	1640	5500	389	1640	5500	389			
CIRCLING	1720	1	468	1720	1	468	1980	2	728	1980	2 1/4	728			



CHANGES - REASONS

1. PROFILE LINE 5 UPDATE: ADDED "250 HAT: 0.61" - REQUIREMENT FOR LPV AND LNAV/VNAV MINS.
2. PROFILE LINE 7 UPDATE: ADDED CHANGED GS ANGLE FROM 3.00 TO 3.05 - GS ANGLE RECALCULATED UPDATE PER TARGETS RESULTS.
3. PROFILE LINE 7 UPDATE: ADDED 20:1 IS CLEAR - IAW 8260.19I PARA 8-6-7.G.(3).
4. LPV MINS UPDATE: CHANGED LPV DA/HAT ALL CATS FROM 1563/312 TO 1501/250. CHANGED LPV VIS RVR ALL CATS FROM 2400 TO 4000 - NEW OBSTACLE EVALUATION UPDATE. RWY 28 MALSR IS NOW A MALSR PER FPT CHECKLIST.
5. LNAV/VNAV MINS UPDATE: CHANGED LNAV/VNAV DA/HAT ALL CATS FROM 1625/374 TO 1546/295. CHANGED LNAV/VNAV VIS RVR ALL CATS FROM 3500 TO 4000 - NEW OBSTACLE EVALUATION UPDATE. RWY 28 MALSR IS NOW A MALSR PER FPT CHECKLIST.
6. LNAV MINS UPDATE: CHANGED LNAV MDA/HAT ALL CATS FROM 1700/449 TO 1640/389. CHANGED LNAV VIS RVR CAT A/B FROM 2400 TO 4000 AND LNAV RVR FROM 4500 TO 5500 - RWY 28 MALSR IS NOW A MALSR PER FPT CHECKLIST.
7. ADDITIONAL FLIGHT DATA UPDATE: CHANGED CHART FAS OBST FROM "1352 TREE 402123N/795415W" TO "1382 AAO 402139N/0794909W" - NEW LNAV CONTROLLING OBSTACLE UPDATE PER TARGETS RESULTS.
8. ADDITIONAL FLIGHT DATA UPDATE: CHANGED "CHART 1510 TOWER 402151/784845" TO "CHART 1509 TOWER (42-000011) 402151N/0794845W" - NEW 7:1 OBSTACLES UPDATE PER TARGETS RESULTS.
9. ADDITIONAL FLIGHT DATA UPDATE: REMOVED "DISTANCE TO THLD FROM 381 HAT: 1.00 NM" AND "FINAL SEGMENT: (TF)" - NO LONGER REQUIRED IN THAT BLOCK.
10. CHANGED CHART NOTE FROM "FOR INOPERATIVE ALS, INCREASE LPV ALL CATS VISIBILITY TO RVR 4500 AND LNAV/VNAV CAT C/D TO RVR 5500" TO "INOPERATIVE TABLE DOES NOT APPLY TO LPV, FOR INOPERATIVE ALS INCREASE LNAV/VNAV ALL CATS TO RVR 4500" - LIGHTING CHANGED FROM MALSR TO MALS AND PER 8260.3 VISIBILITY VALUES CRITERIA.
11. CRC REMAINDER CHANGED FROM 3B9F79DD TO B87E5B71 - LTP/FTP LAT/LONG CHANGED FROM 402115.5200N/0795504.000W. FPAP LAT/LONG CHANGED FROM 402115.3800N/0795700.5500W TO 402115.3810N/0795700.5405W.
12. CHANGE NOTE FROM "PROCEDURE NA FOR ARRIVALS AT HOMEE VIA V119 NORTHBOUND, AND ARRIVALS AT MILWO VIA V12 EASTBOUND" TO "PROCEDURE NA FOR ARRIVALS AT MILWO ON V12 EASTBOUND" - WORDING UPDATED IAW 8260.19J PARA 8-2-4G(2) AND V119 CANCELED.
13. MA INSTRUCTIONS UPDATE: CHANGED MA INSTRUCTIONS FROM "CLIMB TO 3000 DIRECT MESIE AND ON 197.13 TRACK TO AGC VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000" TO "CLIMB TO 3100 DIRECT MESIE AND ON 197.13 TRACK TO AGC VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3100" - NEW C-I-H CONTROLLING OBSTACLE.
14. TERMINAL ROUTE UPDATE: CHANGED MA CA LEG FROM "RW28 - 1563 MSL" TO "RW28 - 1501 MSL" - NEW OBSTACLE EVALUATE UPDATE. LPV DA CHANGED FROM 1563 TO 1501.
15. TERMINAL ROUTE UPDATE: CHANGED MA DF LEG FROM "1563 MSL - MESIE" TO "1501 MSL - MESIE" - NEW OBSTACLE EVALUATE UPDATE. LPV DA CHANGED FROM 1563 TO 1501.
16. ADDITIONAL FLIGHT DATA UPDATE: CHANGED "CHART VDP AT 1.23 NM TO RW28" TO "CHART VDP AT 1.04 NM TO RW28" - VDP RECALCULATED UPDATE PER TARGETS RESULTS.

3/05/25: THIS IS AN UPDATED COPY OF THE FORM DEVELOPE ON 12/31/24.
MA UPDATE.
1. CHANGED MA LEG "MESIE - AGC VOR/DME" ALTITUDE FROM 3100 TO 3000.
2. CHANGED MA INSTRUCTIONS FROM "CLIMB TO 3100 DIRECT MESIE AND ON 197.13 TRACK TO AGC VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3100" TO "CLIMB TO 3000 DIRECT MESIE AND ON 197.13 TRACK TO AGC VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000".
3. ADDITIONAL FLIGHT DATA: CHANGED "HOLD SE, RT, 327.16 INBOUND" TO "HOLD SW, RT, 056.00 INBOUND".

05/22/2025: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 03/11/2025.
PREFACED NOTE: CIRCLING RWY 13 NA AT NIGHT WITH CHART NOTE.

COORDINATED WITH:

A4A

☐

ALPA

☒

AOPA

☒

APA

☒

HAI

☐

NBAA

☒

OTHER: ZOB, PIT APP CON, AGC ATCT, AGC AMGR.

<div><div>FLIGHT CHECKED BY</div><div>MICHAEL GRANT CAMPBELL</div></div>	<div><div>Digitally signed by</div><div>ROBERT G HAMILTON</div><div>May 14, 2025</div></div>	<div><div>OFFICE</div><div>FIOG</div></div>	<div><div>DATE</div><div>05/10/2025</div></div>
<div><div>DEVELOPED BY</div><div>KWEKU DONKOR</div></div>	<div><div>Digitally signed by</div><div>KWEKU DONKOR</div><div>Mar 11, 2025</div></div>	<div><div>OFFICE</div><div>AJV-A433</div></div>	<div><div>DATE</div><div>10/07/2024</div></div>
<div><div>APPROVED BY</div><div>BEV L BORDY</div></div>	<div><div>Digitally signed by</div><div>ROBERT G HAMILTON</div><div>May 14, 2025</div></div>	<div><div>OFFICE</div><div>AJV-A430</div></div>	<div><div>DATE</div><div>06/05/2025</div></div> <div><div>TITLE</div><div>MANAGER</div></div>



AIRPORT ID
AGC

PROCEDURE NAME
RNAV (GPS) RWY 28

ORIGINAL/AMENDMENT
3C

CITY
PITTSBURGH

STATE
PA

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KAGC
RUNWAY	RW28
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W28A
LTP/FTP LATITUDE	402115.5190N
LTP/FTP LONGITUDE	0795503.9940W
LTP/FTP ELLIPSOIDAL HEIGHT	+03474
FPAP LATITUDE	402115.3810N
FPAP LONGITUDE	0795700.5405W
THRESHOLD CROSSING HEIGHT (TCH)	00051.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.05
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0768
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER	B87E5B71
---------------	----------

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+03810
FPAP ORTHOMETRIC HEIGHT	+03810

