

**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> KMQS	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 11	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> COATESVILLE	<u>STATE</u> PA		
<u>AIRPORT ELEVATION</u> 660	<u>TDZE</u> 644	<u>SUPERSEDED</u> RNAV (GPS) RWY 11	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>DATED</u> 05/20/2021	<u>MAG VAR</u> 11W	<u>EPOCH YEAR</u> 1990
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 7 OCTOBER 2021	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

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>
GLOMO		DOVPY		TF	FB	1.00	300.35	8.17	3000
DOVPY	IAF	BOJRY		TF	FB	1.00	022.47	6.63	3000
BOJRY	IF	AZEFY		TF	FB	1.00	112.47	6.40	2400
AZEFY	FAF	CEPAN/2.96 NM TO RW11		TF	FB	0.30	112.56	2.06	
CEPAN/2.96 NM TO RW11		RW11	MAP	TF	FO	0.30	112.56	2.96	
RW11	MAP	1300 MSL		CA			112.56		1300
1300 MSL		GLOMO		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW11

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 3000 DIRECT GLOMO AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. PROFILE STARTS AT BOJRY

3. FAF: 112.56FAF: AZEFYDIST FAF TO MAP: 5.02DIST FAF TO THLD: 5.02

4. MIN ALT: BOJRY 3000, AZEFY 2400, CEPAN/2.96 NM TO RW11 1700

5. DIST TO THLD FROM OM:MM:IM:150 HAT:329 HAT: 0.82GS ANT:

6. MIN GP INCPT: 2400GP ALT AT FAF : AZEFY 2400OM:MM:IM:

7. GP ANGLE: 3.2034:1: IS NOT CLEAR20:1: IS CLEARTCH: 55.3

8. MSA FROM: RW11 2600

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°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 ARRIVALS AT GLOMO ON V3-V408 EASTBOUND AND V403-405 NORTHEAST BOUND.

ADDITIONAL FLIGHT DATA:

HOLD NE, RT, 231.18 INBOUND.
CHART FAS OBST: 946 TREE (42-075643) 395942N/0755505W.
CHART VDP AT 1.59 NM TO RW11.
WAAS CHANNEL # 63006
REFERENCE PATH ID: W11A
CHART CIRCLING ICON.
LTP HAE: 161 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/2, NA WHEN LOCAL WEATHER NOT AVAILABLE.

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	973	1	329	973	1	329	973	1	329	973	1	329			
LNAV/VNAV DA	1091	1 3/8	447	1091	1 3/8	447	1091	1 3/8	447	1091	1 3/8	447			
LNAV MDA	1200	1	556	1200	1	556	1200	1 5/8	556	1200	1 5/8	556			
CIRCLING	1200	1	540	1240	1	580	1260	1 5/8	600	1420	2 1/2	760			



CHANGES - REASONS

1. COURSE/DISTANCE FROM GLOMO TO DOVPY CHANGED FROM 311.24/8.54 TO 300.35/8.17 - DOVPY MOVED 1.63 NM S DUE TO LEG LENGTH ISSUES.
2. COURSE/DISTANCE FROM DOVPY TO BOJRY CHANGED FROM 022.48/5.00 TO 022.47/6.63 - DOVPY MOVED 1.63 NM S DUE TO LEG LENGTH ISSUES.
3. DISTANCE FROM BOJRY TO AZEFY CHANGED FROM 6.10 TO 6.40 - AZEFY MOVED 1823.70 FT E TO CLEAR VGS PENETRATIONS.
4. MISSED APPROACH INSTRUCTIONS CHANGED FROM "CLIMB TO 2400 DIRECT EFECO AND ON 137.00 TRACK TO MXE VORTAC AND HOLD" TO "CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 3000 DIRECT GLOMO AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000" - ATC REQUEST.
5. DIST FAF TO MAP AND DIST FAF TO THLD CHANGED FROM 5.32 TO 5.02 IN LINE 3 - AZEFY MOVED 1823.70 FT E TO CLEAR VGS PENETRATIONS.
6. REMOVED "DISTANCE TO THLD FROM 311 HAT: 0.86 NM" FROM ADDITIONAL FLIGHT DATA AND ADDED "DIST TO THLD FROM 329 HAT: 0.82" TO LINE 5 - NEW LPV MINIMUMS, 8260.19I 8-6-7.E.
7. GP ANGLE/TCH CHANGED FROM 3.00/41.5 TO 3.20/55.3 IN LINE 7 - RAISED TO CLEAR VGS PENETRATIONS.
8. CHANGED "HOLD SW, RT, 055.00 INBOUND" TO "HOLD NE, RT, 231.18 INBOUND" IN ADDITIONAL FLIGHT DATA - ATC REQUEST.
9. REMOVED "CHART FAS OBST: 909 TREE 395949N/0755418W, CHART FAS OBST: 939 TREE 400013N/0755656W, FAS OBST: 1019 AAO 395913N/0755947W" AND ADDED "CHART FAS OBST: 946 TREE (42-075643) 395942N/0755505W" TO ADDITIONAL FLIGHT DATA - NEW CONTROLLING OBSTACLE, 8260.19I 8-6-10.C.
10. ADDED "LTP HAE: 161 M" TO ADDITIONAL FLIGHT DATA - 8260.19I 8-6-10.J(3).
11. LPV DA/HAT CHANGED FROM 955/311 TO 973/329 - NEW OBSTACLE EVALUATION.
12. LNAV/VNAV DA/HAT CHANGED FROM 1274/630 TO 1091/447 - NEW OBSTACLE EVALUATION.
13. LNAV/VNAV VISIBILITY ALL CATS CHANGED FROM 2 1/4 SM TO 1 3/8 SM - LOWER LNAV/VNAV DA/HAT, 8260.3D TABLE 3-3-1.
14. ADDED LNAV SDF CEPAN - NEW OBSTACLE EVALUATION WOULD RAISE MINIMUMS, ACHIEVE LOWEST MINIMUMS WITH NEW SDF.
15. LNAV VISIBILITY CAT C CHANGED FROM 1 1/2 SM TO 1 5/8 SM, CAT D FROM 1 3/4 SM TO 1 5/8 SM - 8260.3D TABLE 3-3-1.
16. CIRCLING MDA/HAA CAT C FROM 1280/620 TO 1260/600, CAT D FROM 1440/780 TO 1420/760 - NEW OBSTACLE EVALUATION.
17. CIRCLING VISIBILITY CAT C CHANGED FROM 1 3/4 SM TO 1 5/8 SM, CAT D FROM 2 SM TO 2 1/2 SM - LNAV CAT C VISIBILITY, 8260.3D TABLE 3-3-7.
18. ADDED "CHART VDP AT 1.59 NM TO RW11" TO ADDITIONAL FLIGHT DATA - PUBLISHABLE IAW 8260.3D 2-6-5.A.
19. REMOVED "BARO-VNAV NA WHEN USING HERITAGE FIELD ALTIMETER SETTING" - MOVED TO 8260-9 PART C REMARKS FOR CONTINGENCY PURPOSES.
20. CHANGED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16 C (4 F) OR ABOVE 47 C (116 F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16 C OR ABOVE 54 C" - 8260.19I 8-6-9.R.
21. REMOVED "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HERITAGE FIELD ALTIMETER SETTING AND INCREASE ALL DA 98 FEET AND ALL MDA 100 FEET, LPV VISIBILITY 1/2 MILE ALL CATS, LNAV/VNAV VISIBILITY 1/2 MILE ALL CATS, LNAV VISIBILITY CATS C AND D 1/4 MILE, AND CIRCLING VISIBILITY CAT C AND D 1/4 MILE" - MOVED TO 8260-9 PART C REMARKS FOR CONTINGENCY PURPOSES.
22. REMOVED "CHART NOTE: DME/DME RNP-0.3 NA" AND ADDED "RNP APCH - GPS" TO PBN REQUIREMENTS NOTES - CURRENT NOTATION PER 8260.19I 8-6-8.B(2).
23. CHANGED CHART PLANVIEW NOTE FROM "PROCEDURE NA FOR ARRIVALS AT GLOMO ON V3-V408 EASTBOUND" TO "PROCEDURE NA FOR ARRIVALS AT GLOMO ON V3-V408 EASTBOUND AND V403-405 NORTHEAST BOUND" - TURN GREATER THAN 90 DEGREES, 8260.19I 8-2-5.E(2).
24. CRC REMAINDER CHANGED FROM 40BF7CF7 TO 577A883A - LTP/FTP COORDINATES CHANGED FROM 395849.6400N/0755229.6500W TO 395849.6425N/0755229.6525W, LTP/FTP ELLISOIDAL HEIGHT CHANGED FROM +01611 TO +01610, FPAP COORDINATES CHANGED FROM 395831.6500N/0755036.1300W TO 395831.6475N/0755036.1320W, GPA/TCH CHANGED FROM 3.00/41.5 TO 3.20/55.3.

COORDINATED WITH:

A4A

☐

ALPA

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AOPA

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APA

☐

HAI

☐

NBAA

☒

OTHER:

ZNY, PHL APP CON, AIRPORT MGR

Digitally signed by			
FLIGHT CHECKED BY		OFFICE	DATE
BOB S PRESSLER		FICO	08/03/2021
BEV L BORDY			
Jul 07, 2021			
DEVELOPED BY		OFFICE	DATE
ANTHONY CAPPABIANCO		AJV-A422	04/20/2021
ANTHONY J CAPPABIANCO			
Jun 28, 2021			
APPROVED BY		OFFICE	DATE
MARLON ROBINSON		AJV-A420	
TITLE			
MANAGER			
Digitally signed by			
BEV L BORDY			
Jul 07, 2021			



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMQS
RUNWAY	RW11
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W11A
LTP/FTP LATITUDE	395849.6425N
LTP/FTP LONGITUDE	0755229.6525W
LTP/FTP ELLIPSOIDAL HEIGHT	+01610
FPAP LATITUDE	395831.6475N
FPAP LONGITUDE	0755036.1320W
THRESHOLD CROSSING HEIGHT (TCH)	00055.3
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.20
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1104
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	577A883A

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+01946
FPAP ORTHOMETRIC HEIGHT	+01946

