

**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><b>AIRPORT ID</b></u> KOQN	<u><b>PROCEDURE NAME</b></u> RNAV (GPS) Y RWY 9	<u><b>ORIGINAL/AMENDMENT</b></u> 2A	<u><b>CITY</b></u> WEST CHESTER	<u><b>STATE</b></u> PA		
<u><b>AIRPORT ELEVATION</b></u> 465	<u><b>TDZE</b></u> 465	<u><b>SUPERSEDED</b></u> RNAV (GPS) Y RWY 9	<u><b>ORIGINAL/AMENDMENT</b></u> 2	<u><b>DATED</b></u> 09/09/2021	<u><b>MAG VAR</b></u> 12W	<u><b>EPOCH YEAR</b></u> 2000
<u><b>FACILITY</b></u> RNAV	<u><b>COORDINATES OF FACILITIES</b></u>	<u><b>ACTUAL EFFECTIVE DATE</b></u>	<u><b>REQUIRED EFFECTIVE DATE</b></u> ROUTINE	<u><b>CANCEL/SUSPEND</b></u>		

**TERMINAL ROUTES**

<u><b>FROM</b></u>	<u><b>FIX TYPE</b></u>	<u><b>TO</b></u>	<u><b>FIX TYPE</b></u>	<u><b>LEG TYPE</b></u>	<u><b>FO/FB</b></u>	<u><b>RNP</b></u>	<u><b>COURSE</b></u>	<u><b>DISTANCE</b></u>	<u><b>ALTITUDE</b></u>
PTW VORTAC		ECZEL		TF	FB	1.00	238.64	16.64	4000
ECZEL	IAF	CEFSY		TF	FB	1.00	178.39	5.00	2900
GLOMO	IAF	CEFSY		TF	FB	1.00	070.68	9.83	2900
CEFSY	IF	WACCY		TF	FB	1.00	088.42	4.92	2100
WACCY	FAF	LYTTA/1.60 NM TO RW09		TF	FB	0.30	088.47	3.44	
LYTTA/1.60 NM TO RW09		RW09	MAP	TF	FO	0.30	088.47	1.60	
RW09	MAP	1000 MSL		CA			088.47		1000
1000 MSL		CEFSY		DF	FO	1.00			2900

**MISSED APPROACH**

**MAP:**

LNAV: RW09

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 2900 DIRECT CEFSY AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. PROFILE STARTS AT CEFSY

3. FAC: 088.47

FAF: WACCY

DIST FAF TO MAP: 5.04

DIST FAF TO THLD: 5.04

4. MIN ALT: CEFSY 2900, WACCY 2100, LYTTA/1.60 NM TO RW09 1000

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

GS ANT:

6. MIN GP INCPT:

GP ALT AT FAF :

OM:

MM:

IM:

7. GP ANGLE:

34:1: IS NOT CLEAR

20:1: IS CLEAR

TCH:

8. MSA FROM: RW09 2600

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 9 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON PTW VORTAC AIRWAY RADIALS 205 CW 287.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GLOMO ON V403-405 SOUTHWEST BOUND, AND ON V3-408 WESTBOUND.  
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE COATESVILLE ALTIMETER SETTING AND INCREASE ALL MDAS 60 FEET.

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 088.42 INBOUND.  
CHART FAS OBST: 623 TREE (42-132736) 395916N/0753600W.  
750 AAO 395841N/0754150W.  
CHART VDP AT 0.90 NM TO RW09.  
CHART CIRCLING ICON.  
WACCY TO RW09: 3.00/40.

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - 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
LNAV MDA	880	1	415	880	1	415		NA			NA				
CIRCLING	1020	1	555	1020	1	555		NA			NA				



**CHANGES - REASONS**

1. LINE 7: UPDATED "20:1 IS NOT CLEAR" TO "20:1 IS CLEAR." - NO 20:1 PENETRATIONS EXIST.
2. UPDATED CHART NOTE: FROM "RWY 9 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" TO "RWY 9 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED." - NO 20:1 PENETRATIONS EXIST, 34:1 PENETRATIONS PRESENT.
3. REMOVED CHART NOTE: PROCEDURE NA AT NIGHT. - RWY SURVEY ADDED 2/23/2016; NO 20:1 PENETRATIONS EXIST.
4. ADDED ADDITIONAL FLIGHT DATA: CHART VDP AT 0.90 NM TO RW09. - NO 20:1 PENETRATIONS PRESENT.
5. ADDED CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE COATESVILLE ALTIMETER SETTING AND INCREASE ALL MDAS 60 FEET. - PER ATC REQUEST.

**COORDINATED WITH:**

**A4A** ☐ **ALPA** ☐ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZNY, PHL APP CON, AMGR

**FLIGHT CHECKED BY**

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021  
GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

**OFFICE** *Digitally signed by*

**DATE**

**CASIMIR L TABAKA**

Apr 14, 2023

**DEVELOPED BY**

CASIMIR L. TABAKA (BARBARA GORMAN)

*Digitally signed by*

**CASIMIR L TABAKA**

Apr 14, 2023

**OFFICE**

AJV-A432

**DATE**

02/24/2023

**APPROVED BY**

CASIMIR TABAKA

*Digitally signed by*

**CASIMIR L TABAKA**

Apr 14, 2023

**OFFICE**

AJV-A430

**DATE**

**TITLE**  
MANAGER



FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

<u>AIRPORT ID</u> KOQN	<u>PROCEDURE NAME</u> RNAV (GPS) Y RWY 9	<u>AMDT NO.</u> 2A	<u>CITY</u> WEST CHESTER	<u>STATE</u> PA	<u>AIRPORT ELEVATION</u> 465	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM  
PTW VORTAC

TO  
ECZEL

<u>RNP</u>	<u>DISTANCE</u> 16.64	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	400345.00N/0755033.00W		1057	164	98	4E	1000				AT1943	4000
TERRAIN	400345.00N/0755033.00W		857 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM  
ECZEL

TO  
CEFSY

<u>RNP</u>	<u>DISTANCE</u> 5.00	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (42-000764)	400126.32N/0754846.50W		936	20	3	1A	1000				AT964	2900
TERRAIN	400124.00N/0755015.00W		734 (700)								AS1500	2200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INITIAL

FROM

GLOMO

TO

CEFSY

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	9.83											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	395554.00N/0755509.00W		870	164	98	4E	1000				AT1030	2900
TERRAIN	395554.00N/0755512.00W		669 (700)								AS1500	2200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

CEFSY

TO

WACCY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
	4.92											
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	400018.00N/0754645.00W		837	164	98	4E	500				AC98	1500
TERRAIN	395842.00N/0754657.00W		600 (600)								AS1500	2100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV

FROM  
WACCY

TO  
LYTTA/1.60 NM TO RW09

RNP	DISTANCE 3.44	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	395856.87N/0754042.00W		685	50	20	2C	250				RA58	1000

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

FINAL: LNAV STEPDOWN

FROM  
LYTTA/1.60 NM TO RW09

TO  
RW09

RNP	DISTANCE 1.60	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (42-132736)	395916.37N/0753600.10W		623	20	3	1A	250					880

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



MISSED APPROACH : LNAV

FROM

RW09

TO

CEFSY

RNP	DISTANCE	PAT	MAP	HAT			HMAS 780					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2900
AAO	395815.00N/0754342.00W		801	164	98	4E	1000					1900
TERRAIN	395842.00N/0754657.00W		600 (600)								AS1500	2100

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☐ CAT C

☐ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
BUILDING (42-132719)	400025.83N/0753501.55W	1.30	555	713	20	10	1B	300			1020
CATEGORY B											
BUILDING (42-132719)	400025.83N/0753501.55W	1.82	555	713	20	10	1B	300			1020

CIRCLING REMARKS:

MSA

CENTER

RW09

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (42-002870)	400230.14N/0751410.08W	091	16.5	1547	20	3	1A	1000			2600

MSA REMARKS:



**NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:**

TREE HEIGHT 100' PER FPT.  
TAA NOT DEVELOPED PER ATC REQUEST.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH  
PHL APP CON

<u>WX SERVICE</u> AWOS-3T	<u>LOCATION</u> KOQN	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KOQN	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> AWOS-3	<u>LOCATION</u> KMQS	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KMQS	<u>DISTANCE</u> 13.10	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 58

WX REMARKS:  
RASS PRESSURE PATTERNS THE SAME  
KOQN 465, KMQS 660  
RA = 57.5.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW09 - LIRL, PAPI-2L		NPI-G	
RW27 - LIRL, PAPI-2L		NPI-G	

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 4.20	<u>TCH</u> 23.0
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	125
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE		

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:



"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	LNAV
34:1	
623 TREE (42-132736) 395916.37N/0753600.10W (68.66)	614 TREE (42-132802) 395917.67N/0753559.36W (62.21)
618 TREE (42-132688) 395915.46N/0753600.63W (61.85)	609 TREE (42-132670) 395915.80N/0753559.08W (56.54)
597 TREE (42-132682) 395917.17N/0753557.04W (50.03)	555 TREE (42-132851) 395912.83N/0753544.04W (33.97)
597 TREE (42-132727) 395915.59N/0753604.37W (32.62)	534 TREE (42-132687) 395914.97N/0753537.67W (28.63)
531 TREE (42-132609) 395913.71N/0753536.63W (27.07)	588 TREE (42-132606) 395915.51N/0753602.98W (26.66)
590 TREE (42-132657) 395913.20N/0753603.48W (25.94)	589 TREE (42-132807) 395914.91N/0753604.83W (23.12)
530 TREE (42-132715) 395917.36N/0753540.32W (20.39)	586 TREE (42-132841) 395916.14N/0753605.31W (19.9)
520 TREE (42-132794) 395918.66N/0753539.20W (13.78)	551 TREE (42-132748) 395916.74N/0753553.27W (12.13)
496 TREE (42-132875) 395915.73N/0753529.21W (9.99)	583 TREE (42-132793) 395915.38N/0753609.53W (6.98)
487 TREE (42-132855) 395917.61N/0753528.01W (4.97)	509 TREE (42-132631) 395916.52N/0753537.66W (4.73)
511 TREE (42-132768) 395918.87N/0753539.68W (3.86)	507 POLE (42-132810) 395915.55N/0753537.66W (2.06)
494 POLE (42-132812) 395915.47N/0753531.91W (1.8)	504 POLE (42-132628) 395915.03N/0753536.55W (1.17)
504 TREE (42-132611) 395919.37N/0753538.11W (0.7)	580 TREE (42-132770) 395914.97N/0753610.89W (0.67)

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or  
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:



AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
KOQN	RNAV (GPS) Y RWY 9	2A	WEST CHESTER	PA	465	RNAV
<b>PART C: GENERAL REMARKS:</b>						
PRECIPITOUS TERRAIN EVALUATION COMPLETED.						
LPV AND LNAV/VNAV NOT DEVELOPED DUE TO VGS PENETRATIONS.						
APPROVAL LETTER FILED FOR VDA 3.00 DEGREES LESS THAN VGSI 4.20 DEGREES.						
RENAMED PROCEDURE TO Y AND CREATED Z TO COMPLY WITH TFR RESTRICTIONS DURING PRESIDENTIAL MOVEMENT.						
FPT/ATC REQUEST ALTERNATE ALTIMETER NOTE REMAIN CHARTED.						
ORDER 8260.3 CHAPTER 2 APPLIED TO 750 AAO 395841.00N/0754150.00W.						
ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.						



<div>AIRPORT ID</div> <div>KOQN</div>	<div>PROCEDURE NAME</div> <div>RNAV (GPS) Y RWY 9</div>	<div>AMDT NO.</div> <div>2A</div>	<div>CITY</div> <div>WEST CHESTER</div>	<div>STATE</div> <div>PA</div>	<div>AIRPORT ELEVATION</div> <div>465</div>	<div>FACILITY</div> <div>RNAV</div>
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PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.04
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	076.47
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	500
DISTANCE FROM	THLD	TO 1500FT POINT	4.84
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	076.47
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	500

THRESHOLD COORDINATES (IF STR-IN)

395920.86N/0753514.19W

ARP COORDINATES

395924.42N/0753454.85W

RUNWAY APCH END AND DIST FURTHEST FROM ARP

RUNWAY 27 DISTANCE 0.28 NM

FAF COORDINATES

395810.25N/0754136.74W

FIX NAME COORDINATES

REMARKS

THLD DISPLACED 125FT, ACTUAL COORDINATES: 395920.57N/0753515.76W.

QUALITY  
10  
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

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PART E: PREPARED BY

<u>NAME</u> CASIMIR L. TABAKA (BARBARA GORMAN)	<u>OFFICE</u> AJV-A432	<u>DATE</u> 02/24/2023	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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