

**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> KOYM	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 10	<u>ORIGINAL/AMENDMENT</u> 1D	<u>CITY</u> ST MARYS	<u>STATE</u> PA		
<u>AIRPORT ELEVATION</u> 1934	<u>TDZE</u> 1909	<u>SUPERSEDED</u> RNAV (GPS) RWY 10	<u>ORIGINAL/AMENDMENT</u> 1C	<u>DATED</u> 09/09/2021	<u>MAG VAR</u> 11W	<u>EPOCH YEAR</u> 2005
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<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>
DETPE	IAF	PUNKS		TF	FB	1.00	123.11	12.30	4000
PUNKS	IF	CIMLO		TF	FB	1.00	100.82	6.08	3600
CIMLO	FAF	RW10	MAP	TF	FO	0.30	100.91	5.13	
RW10	MAP	2334 MSL		CA			100.91		
2334 MSL		MINSK		DF	FO	1.00			4000

**MISSED APPROACH**

**MAP:**

LNAV: RW10

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 4000 DIRECT MINSK AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT                      SIDE OF COURSE                      OUTBOUND                      FT WITHIN                      MILES OF                      (IAF)

2. PROFILE STARTS AT PUNKS

3. FAF:    100.91                      FAF: CIMLO                      DIST FAF TO MAP: 5.13                      DIST FAF TO THLD: 5.13

4. MIN ALT:    PUNKS 4000, CIMLO 3600

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

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:    RW10 4200

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 10 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART NOTE: VDP NA WHEN USING BRADFORD ALTIMETER SETTING.  
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BRADFORD ALTIMETER SETTING AND INCREASE ALL MDA 240 FEET, AND LNAV VISIBILITY CAT A/B 1/4 SM, VISIBILITY CAT C/D 5/8 SM, AND CIRCLING VISIBILITY CAT A/B 1/2 SM, VISIBILITY CAT C 3/4 SM.

ADDITIONAL FLIGHT DATA:

HOLD E, RT, 281.15 INBOUND.  
CHART FAS OBST: 2161 TOWER (42-000542) 412456N/0783355W.  
CHART DUKE MOA.  
CHART VDP AT 1.99 NM TO RW10.  
CIMLO TO RW10: 3.04/40.

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT C 800-2 1/4, CAT D 1000-3, 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	2580	1	671	2580	1	671	2580	1 7/8	671	2580	1 7/8	671			
CIRCLING	2620	1	686	2660	1	726	2700	2 1/4	766	2840	3	906			



**CHANGES - REASONS**

1. REMOVED LPV LINE OF MINIMUMS - AIRPORT ONLY HAS A LEGACY "C" TYPE SURVEY AND PER EASTERN FPT.
2. CHANGED FINAL APPROACH COURSE FROM 100.90 TO 100.91 - DETERMINED BY TARGETS BUILD. NO CHANGE IN FIX LOCATION OR GROUND TRACK.
3. PROFILE LINE 5, 6 AND 7: DISTANCE 260 HAT: 0.71, MIN GP INCPT: 3600 AND GP ALT AT FAF: CIMLO 3600, AND GP ANGLE 3.00, TCH 40.0 REMOVED - LPV MINIMUMS REMOVED.
4. CHANGED NOTE FROM 'WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BRADFORD ALTIMETER SETTING AND INCREASE ALL DA/MDA 240 FEET, AND LPV ALL CATS VISIBILITY 3/4 SM, LNAV CAT A/B 1/4 SM AND CAT C/D 5/8 SM, AND CIRCLING CAT A 1/4 SM, CAT B 1/2 SM, CAT C 3/4 SM' TO 'CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BRADFORD ALTIMETER SETTING AND INCREASE ALL MDA 240 FEET, AND LNAV VISIBILITY CAT A/B 1/4 SM, VISIBILITY CAT C/D 5/8 SM, AND CIRCLING VISIBILITY CAT A/B 1/2 SM, VISIBILITY CAT C 3/4 SM' - LPV MINIMUMS REMOVED AND PER 8260.19I PARA. 8-6-11N(1)(A).
5. CHARTED DUKE MOA - MATCHES LOC RWY 28 CHART.
6. UPDATED VDP LOCATION FROM 2.00 TO RW10 TO 1.99 TO RW10 - BASED ON A 3.04 DESCENT ANGLE.
7. REMOVED NOTE '\*LNAV ONLY' AND ASSOCIATED ASTERISK FROM VDP 2 NM TO RW10' - NO LONGER REQUIRED.
8. ADDED 'CIMLO TO RW10: 3.04/40' IN ADDITIONAL FLIGHT DATA - PER 8260.19I PARA. 8-6-10(O)(1).
9. INCREASED CIRCLING CAT C VISIBILITY FROM 2 SM TO 2 1/4 SM AND CAT D FROM 2 3/4 SM TO 3 SM - PER 8260.3E TABLE 3-3-7.
10. ALTERNATE MINIMUMS CHANGED FROM 'STANDARD - CAT D 900-2 3/4, NA WHEN LOCAL WEATHER NOT AVAILABLE' TO 'STANDARD - CAT C 800-2 1/4, CAT D 1000-3, NA WHEN LOCAL WEATHER NOT AVAILABLE' - DUE TO INCREASE IN CIRCLING CAT C/D VISIBILITIES.

**COORDINATED WITH:**

**A4A** ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZOB, ARPT MGR

*Digitally signed by*

**FLIGHT CHECKED BY**  
TERRY HESTER

**RAKE MCGRAW**  
Sep 07, 2023

**OFFICE**  
FPO

**DATE**  
09/06/2023

**DEVELOPED BY**  
RALPH DUMAR

*Digitally signed by*  
**RALPH DUMAR**  
Jul 31, 2023

**OFFICE**  
AJV-A422

**DATE**  
07/11/2023

**APPROVED BY**  
MARLON ROBINSON

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**RAKE MCGRAW**  
Sep 07, 2023

**OFFICE**  
AJV-A420

**DATE**

**TITLE**  
MANAGER



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

<u>AIRPORT ID</u> KOYM	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 10	<u>AMDT NO.</u> 1D	<u>CITY</u> ST MARYS	<u>STATE</u> PA	<u>AIRPORT ELEVATION</u> 1934	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM  
DETPE

TO  
PUNKS

<u>RNP</u>	<u>DISTANCE</u> 12.30	<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	412257.00N/0784518.00W	2258	164	98	4E	1000				AT742	4000
												TERRAIN	412300.00N/0784600.00W	1948 (1900)								AS1500	3400

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM  
PUNKS

TO  
CIMLO

<u>RNP</u>	<u>DISTANCE</u> 6.08	<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 (42-000340)	412309.00N/0784141.00W	2705	50	50	2D	500				AT395	3600
												TERRAIN	412251.00N/0784254.00W	2230 (2200)								AS1000	3200

COMPUTATIONS

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

SEGMENT REMARKS:



FINAL: LNAV

FROM

CIMLO

TO

RW10

<u>RNP</u>	<u>DISTANCE</u> 5.13	<u>PAT</u>	<u>MAP</u> RW10	<u>HAT</u> 671			<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 (42-000542)	412456.00N/0783355.00W		2161	500	125	5E	250				AC125 XP44	2580

COMPUTATIONS

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

TO MATCH PUBLISHED MDA/HAT.  
MISSED APPROACH : LNAV

FROM

RW10

TO

MINSK

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 2480					
<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>
								ASC				4000
AAO	412401.00N/0782425.00W		2540	50	20	2C	1000					3600
TERRAIN	412457.00N/0782400.00W		2339 (2300)								AS1500	3800

COMPUTATIONS

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



AIRPORT ID

KOYM

PROCEDURE NAME

RNAV (GPS) RWY 10

AMDT NO.

1D

CITY

ST MARYS

STATE

PA

AIRPORT ELEVATION

1934

FACILITY

RNAV

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											
TREE	412327.00N/0782936.00W	1.32	686	2219	50	20	2C	300		XP101	2620
CATEGORY B											
TREE	412322.00N/0782925.00W	1.87	726	2259	50	20	2C	300		XP101	2660
CATEGORY C											
TREE (42-029127)	412243.85N/0782819.92W	2.95	766	2380	40	20	2C	300		XP20	2700
CATEGORY D											
AAO	412429.14N/0782503.37W	3.86	906	2520	50	20	2C	300		XP20	2840

CIRCLING REMARKS:

XP: TO MATCH PUBLISHED CMDA/HAA.

MSA

CENTER

RADIUS

RW10

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (42-002892)	410720.24N/0782628.93W	181	17.7	3160	500	125	5E	1000			4200

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

LPV N/A DUE TO RUNWAY ONLY HAVING A LEGACY "C" TYPE SURVEY, PER EASTERN FPT.

LNAV/VNAV NA - NON-PART 139 AIRPORT.

TAA NOT DEVELOPED AT ATC REQUEST.

100 FOOT ADVERSE ASSUMPTION VEGETATION USED PER EASTERN FPO.

INTERMEDIATE DTA EVALUATED.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH  
ZOB ARTCC, AOO FSS

<u>WX SERVICE</u> AWOS-3P	<u>LOCATION</u> KOYM	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KOYM	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KBFD	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KBFD	<u>DISTANCE</u> 24.25	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 225

WX REMARKS:  
RASS PRESSURE PATTERNS NOT THE SAME  
HIGH TERRAIN 2379, LOW TERRAIN 1175  
RA=224.3

<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>
RW10 - MIRL (PCL), PAPI-4L (PCL)		NPI-G	
RW28 - MALS (PCL), MIRL (PCL), PAPI-4L (PCL)		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> 3.00	<u>TCH</u> 40.9
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
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			
1928 NAVAID (42-023759) 412442.41N/0783047.25W (10.15)		1919 NAVAID (42-023758) 412444.93N/0783045.08W (6.01)	
1940 TREE (42-029137) 412441.81N/0783056.22W (2.06)		1932 TREE (42-026489) 412442.3000N/0783053.2600W (0.68)	

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

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

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.





<u>AIRPORT ID</u> KOYM	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 10	<u>AMDT NO.</u> 1D	<u>CITY</u> ST MARYS	<u>STATE</u> PA	<u>AIRPORT ELEVATION</u> 1934	<u>FACILITY</u> RNAV
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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	3.13
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	089.91
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	2000
DISTANCE FROM	THLD	TO 1500FT POINT	4.93
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	089.91
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	2000

THRESHOLD  
COORDINATES  
(IF STR-IN)

412444.94N/0783037.73W

ARP COORDINATES

412444.92N/0783009.47W

RUNWAY APCH END  
AND DIST FURTHEST  
FROM ARP

RUNWAY 10 DISTANCE 0.35 NM

FAF  
COORDINATES

412444.63N/0783726.69W

FIX NAME  
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.

QUALITY  
34  
CHECKED

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

Electronic Version

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PART E: PREPARED BY

<u>NAME</u> RALPH DUMAR	<u>OFFICE</u> AJV-A422	<u>DATE</u> 07/11/2023	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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