

**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> 29D	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 28	<u>ORIGINAL/AMENDMENT</u> 1C	<u>CITY</u> GROVE CITY	<u>STATE</u> PA		
<u>AIRPORT ELEVATION</u> 1370	<u>TDZE</u> 1341	<u>SUPERSEDED</u> RNAV (GPS) RWY 28	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 09/13/2018	<u>MAG VAR</u> 9W	<u>EPOCH YEAR</u> 2010
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 19 MAY 2022	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 221/30 CW 341/30	NOPT	221/15 CW 341/15		4100
2. 221/15 CW 341/15		FENRU	IF/IAF	4000
3. 341/30 CW 101/30		CIGBA	IAF	4100
4. 101/30 CW 221/30		BIYAP	IAF	4100

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
CIGBA	IAF	FENRU	NOPT	TF	FB	1.00	341.45	8.70	4000
BIYAP	IAF	FENRU	NOPT	TF	FB	1.00	221.46	8.70	4000
FENRU	IF/IAF	TAPPS		TF	FB	1.00	281.39	6.01	3100
TAPPS	FAF	ZEBOR/1.80 NM TO RW28		TF	FB	0.30	281.30	3.69	
ZEBOR/1.80 NM TO RW28		RW28	MAP	TF	FO	0.30	281.30	1.80	
RW28	MAP	2300 MSL		CA	FB		281.30		2300
2300 MSL		FENRU		DF	FO	1.00			4000

QUALITY
10
CHECKED

MINIMUMS:

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

ALTERNATE: NA ☒

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
LP MDA	1760	1	419	1760	1	419		NA			NA				
LNAV MDA	1800	1	459	1800	1	459		NA			NA				
CIRCLING	1920	1	550	1920	1	550		NA			NA				

CHANGES - REASONS

1. INCORPORATED P-NOTAM AMENDMENTS: AMDT 1A/ NOTAM 4/2629, AMDT 1B/ NOTAM 8/6588.
2. ADDED RNP VALUE "1.00" TO MISSED APPROACH IN TERMINAL ROUTES - IAW 8260.58B 4-3-1.A.(1).
3. ADDED "MAX 6000" TO HOLD-IN-LIEU ON LINE 2 - IAW 8260.19I PARA 8-6-7.B.(2).
4. UPDATED MINIMUM ALTITUDE FOR ZRBOR/1.80 NM TO RW28 ON PROFILE LINE 4 FROM "1920" TO "1940" - RASS ADJUSTMENT RECALCULATED AND APPLIED PER CURRENT CRITERIA AND SOFTWARE EVALUATION.
5. ADDED "20:1: IS CLEAR" TO PROFILE LINE 7 - THERE ARE NO 20:1 PENETRATIONS TO RWY 28.
6. UPDATED PBN REQUIREMENTS NOTE: FROM "RNP APCH" TO "RNP APCH - GPS" - IAW 8260.19I 8-6-8.B.(2).
7. UPDATED HELICOPTER VISIBILITY NOTE FROM "HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" TO "RWY 28 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" - IAW IAW 8260.19I 8-6-11 K.(3).
8. UPDATED CHART FAS NOTE IN ADDITIONAL FLIGHT DATA FROM "1465 TREE 410814N/0800958W" AND "1423 TREE 410834N/0800812W" TO "1465 TREE (42-035200) 410814N/0800958W, 1423 TREE (42-041716) 410834N/0800812W" - COMBINED NOTES AND ADDED OBSTACLE IDS IAW 8260.19I 8-6-10.C.
9. UPDATED LP HAT FROM "412" TO "419" - PENDING RUNWAY DATA CHANGES TDZE FROM "1348" TO "1341".
10. UPDATED LNAV HAT FROM "452" TO "459" - PENDING RUNWAY DATA CHANGES TDZE.
11. FPAP LOCATION UPDATED IN FAS DATA FROM "410848.3290N/ 0801132.3870W" TO "410848.3200N/ 0801132.3910W" - FPAP MOVED 0.96 FT IAW NEW EVALUATION SOFTWARE.
12. CRC REMAINDER CHANGED FROM "E8EFB0CB" TO "E4D29BD1" - FPAP MOVED.

COORDINATED WITH:

A4A ☐
ALPA ☒
AOPA ☒
APA ☐
HAI ☐
NBAA ☒
OTHER: ZOB, YNG APP CON, ARPT MGR

FLIGHT CHECKED BY

JEREMY R VIRTIS

OFFICE

FPO

Digitally signed by **DATE**
JASON KRETSCHMER 03/22/2022

DEVELOPED BY

JASON KRETSCHMER (COLIN CAMPBELL)

Digitally signed by

JASON KRETSCHMER

Jan 31, 2022

Digitally signed by

JASON KRETSCHMER

Jan 31, 2022

OFFICE

AJV-A421

Jan 31, 2022

DATE

12/14/2021

OFFICE

AJV-A420

DATE

TITLE
 MANAGER

QUALITY
 10
 CHECKED

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	29D
RUNWAY	RW28
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W28A
LTP/FTP LATITUDE	410844.9000N
LTP/FTP LONGITUDE	0800934.5400W
LTP/FTP ELLIPSOIDAL HEIGHT	+03616
FPAP LATITUDE	410848.3200N
FPAP LONGITUDE	0801132.3910W
THRESHOLD CROSSING HEIGHT (TCH)	00056.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1376
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
CRC REMAINDER	E4D29BD1

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+03953
FPAP ORTHOMETRIC HEIGHT	+03953

