

**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> KLMO	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 29	<u>ORIGINAL/AMENDMENT</u> 2B	<u>CITY</u> LONGMONT	<u>STATE</u> CO		
<u>AIRPORT ELEVATION</u> 5055	<u>TDZE</u> 5047	<u>SUPERSEDED</u> RNAV (GPS) RWY 29	<u>ORIGINAL/AMENDMENT</u> 2A	<u>DATED</u> 05/01/2014	<u>MAG VAR</u> 10E	<u>EPOCH YEAR</u> 2005
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 12 AUGUST 2021	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
WOLTS	IAF	FIMUR		TF	FB	1.00	261.42	7.10	7300
FIPSS	IAF	FIMUR		TF	FB	1.00	355.24	5.62	7300
FIMUR	IF	MELVN		TF	FB	1.00	292.86	6.05	7000
MELVN	FAF	RW29	MAP	TF	FO	0.30	292.72	6.07	
RW29	MAP	5540 MSL		CA			292.72		5540
5540 MSL		NIWOT		DF	FO	1.00			7400

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW29

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5540 THEN CLIMBING RIGHT TURN TO 7400 DIRECT NIWOT AND HOLD, CONTINUE CLIMB-IN-HOLD TO 7400.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

- 1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
- 2. PROFILE STARTS AT FIMUR
- 3. **FAC:** 292.72 **FAF:** MELVN **DIST FAF TO MAP:** 6.07 **DIST FAF TO THLD:** 6.07
- 4. **MIN ALT:** FIMUR 7300, MELVN 7000
- 5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **291 HAT:** 0.85 **GS ANT:**
- 6. **MIN GP INCPT:** 7000 **GP ALT AT FAF:** MELVN 7000 **OM:** **MM:** **IM:**
- 7. **GP ANGLE:** 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 34.7
- 8. **MSA FROM:** RW29 15500

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -25°C OR ABOVE 54°C.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WOLTS ON V575 SOUTHEAST BOUND.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT FIPSS ON V85 SOUTHEAST BOUND.
 CHART PLANVIEW NOTE: LIMIT MISSED APPROACH TO 200 KIAS.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON
 HOLD SE, RT, 311.00 INBOUND.
 CHART FAS OBST: 5329 AAO 400724N/1050521W.
 CHART VDP AT 2.29 NM TO RW29*
 *LNAV ONLY.
 WAAS CHANNEL # 86834
 REFERENCE PATH ID: W29A
 LTP HAE: 1517 M

MINIMUMS:

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

ALTERNATE: NA STANDARD - CAT C 900-2 1/4, CAT D 1500-3, NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
	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	5338	7/8	291	5338	7/8	291	5338	7/8	291	5338	7/8	291			
LNAV/VNAV DA	5387	1	340	5387	1	340	5387	1	340	5387	1	340			
LNAV MDA	5800	1	753	5800	1 1/4	753	5800	2	753	5800	2	753			
CIRCLING	5800	1	745	5800	1 1/4	745	5860	2 1/4	805	6480	3	1425			



CHANGES - REASONS

1. INCORPORATED P-NOTAM FDC 4/1092 FOR AMDT 2A.
2. CHANGED FIMUR TO MELVIN COURSE FROM "292.79" TO "292.86" IN TERMINAL ROUTES -- CORRECT GEODESIC CALCULATION.
3. CHANGED CA LEG ALTITUDE FROM "5322" TO "5540" -- HIGHER DA FROM AMDT 2A INCREASED MISSED APPROACH SECTION 2 START ALTITUDE AND TURN EXCEEDS 15 DEGREES REQUIRING CLIMB-TO ALTITUDE; 8260.58A, 3-5-2.A(2).
4. CHANGED MISSED APPROACH INSTRUCTIONS TO READ "CLIMB TO 5540 THEN CLIMBING RIGHT TURN TO 7400 DIRECT NIWOT AND HOLD, CONTINUE CLIMB-IN-HOLD TO 7400" -- MISSED APPROACH TURN EXCEEDS 15 DEGREES, REQUIRES CLIMB-TO ALTITUDE; 8260.58A, 3-5-2.A(2) AND FAA MEMORANDUM DATED 25 APR 19, ATTACHMENT 7.
5. ADDED "291 HAT: 0.85" TO PROFILE LINE 5 -- 8260.19H, 8-6-7.E(3).
6. ADDED "20:1 IS CLEAR" TO PROFILE LINE 7 -- CONFIRMED CLEAR; 8260.19H, 8-6-7.G(3).
7. REMOVED CHART NOTE "DME/DME RNP-0.3 NA" AND ADDED PBN REQUIREMENTS NOTE "RNP APCH" -- 8260.19H, 8-6-8.B(1).
8. MOVED BACKUP ALTIMETER AND BARO-VNAV NA NOTES TO 8260-9 REMARKS -- COORDINATED WITH FPT; 8260.19H, 8-6-9.F(3).
9. CHANGED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -25°C (-13°F) OR ABOVE 52°C (127°F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -25°C OR ABOVE 54°C" - 8260.19H, 8-6-9.S AND TARGETS EVALUATION.
10. CHANGED CHART PLANVIEW NOTE "LIMIT MISSED APPROACH TO 210 KIAS" TO "LIMIT MISSED APPROACH TO 200 KIAS" -- 210 KIAS WAS NOT ADEQUATE TO MITIGATE RISING TERRAIN AFTER INCREASING CA LEG ALTITUDE; 200 KIAS REQUIRED THROUGH TURN TO AVOID TERRAIN.
11. CHANGED ALTERNATE MINIMUMS FROM "STANDARD - CAT C 900-2 1/2, CAT D 1500-3" TO "STANDARD - CAT C 900-2 1/4, CAT D 1500-3, NA WHEN LOCAL WEATHER NOT AVAILABLE" -- VISIBILITIES UPDATED TO CURRENT CRITERIA PER 8260.19H, TABLE 3-3-7; UPDATED VERBIAGE PER 8260.19H, 8-6-11.B(4).
12. CHANGED VISIBILITIES FOR LPV ALL CATS FROM "1" TO "7/8", LNAV/VNAV ALL CATS FROM "1 1/8" TO "1", LNAV CAT C/D FROM "2 1/2" TO "2", AND CIRCLING CAT C FROM "2 1/2" TO "2 1/4" -- UPDATED VISIBILITIES TO CURRENT CRITERIA PER 8260.19H, TABLES 3-3-1 AND 3-3-7.

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA OTHER: ZDV, AMGR

FLIGHT CHECKED BY

DANIEL STRICKER

Digitally signed by
JASON KRETSCHMER

Jun 30, 2021

OFFICE

FICO

DATE

06/28/2021

DEVELOPED BY

JASON KRETSCHMER (DANIEL C JOHNSEN)

Digitally signed by
JASON KRETSCHMER

Jan 06, 2021

OFFICE

AJV-A421

DATE

07/08/2020

APPROVED BY

MARLON ROBINSON

Digitally signed by
JASON KRETSCHMER

Jan 06, 2021

OFFICE

AJV-A420

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLMO
RUNWAY	RW29
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W29A
LTP/FTP LATITUDE	400939.0160N
LTP/FTP LONGITUDE	1050923.0680W
LTP/FTP ELLIPSOIDAL HEIGHT	+15170
FPAP LATITUDE	401027.1105N
FPAP LONGITUDE	1051100.9380W
THRESHOLD CROSSING HEIGHT (TCH)	00034.7
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1288
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	AE7EADD8

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+15335
FPAP ORTHOMETRIC HEIGHT	+15335

