

**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.

<b><u>AIRPORT</u></b> FAIRMONT MUNI	<b><u>AIRPORT ID</u></b> KFRM	<b><u>PROCEDURE NAME</u></b> RNAV (GPS) RWY 31	<b><u>ORIGINAL/AMENDMENT</u></b> ORIG-A	<b><u>CITY</u></b> FAIRMONT	<b><u>STATE</u></b> MN
<b><u>AIRPORT ELEVATION</u></b> 1162	<b><u>TDZE</u></b> 1162	<b><u>SUPERSEDED</u></b> RNAV (GPS) RWY 31	<b><u>ORIGINAL/AMENDMENT</u></b> ORIG	<b><u>DATED</u></b> 05/07/2009	<b><u>MAG VAR</u></b> 4E
<b><u>FACILITY</u></b> RNAV	<b><u>COORDINATES OF FACILITIES</u></b>	<b><u>ACTUAL EFFECTIVE DATE</u></b> 28 FEBRUARY 2019	<b><u>REQUIRED EFFECTIVE DATE</u></b> ROUTINE	<b><u>CANCEL/SUSPEND</u></b>	<b><u>EPOCH YEAR</u></b> 1995

**TERMINAL ROUTES**

<b><u>FROM</u></b>	<b><u>FIX TYPE</u></b>	<b><u>TO</u></b>	<b><u>FIX TYPE</u></b>	<b><u>LEG TYPE</u></b>	<b><u>FO/FB</u></b>	<b><u>RNP</u></b>	<b><u>COURSE</u></b>	<b><u>DISTANCE</u></b>	<b><u>ALTITUDE</u></b>
RUYOR	IAF	SIKTE	NOPT	TF	FB	1.00	040.19	5.00	3100
VOPPU	IAF	SIKTE	NOPT	TF	FB	1.00	220.30	5.00	3100
SIKTE	IF/IAF	NAYIG		TF	FB	1.00	310.24	6.02	3100
NAYIG	FAF	CUYDA/1.60 NM TO RW31		TF	FB	0.30	310.18	4.21	
CUYDA/1.60 NM TO RW31		RW31	MAP	TF	FO	0.30	310.18	1.60	
RW31	MAP	1467 MSL		CA			310.18		
1467 MSL		UCEVA		DF	FO	1.00			3100

**MISSED APPROACH**

**MAP:**

LPV: DA  
 LNAV/VNAV: DA  
 LNAV: RW31

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3100 DIRECT UCEVA AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. HOLD SE SIKTE, RT, 310.24 INBOUND, 3100 FT. IN LIEU OF PT (IAF), MAX 8000.

3. FAC: 310.18      FAF: NAYIG      DIST FAF TO MAP: 5.81      DIST FAF TO THLD: 5.81

4. MIN ALT:    SIKTE 3100, NAYIG 3100, CUYDA/1.60 NM TO RW31 1720\*

5. DIST TO THLD FROM OM:      MM:      IM:      150 HAT:      305 HAT: 0.78      GS ANT:

6. MIN GP INCPT: 3100      GP ALT AT FAF : NAYIG 3100      OM:      MM:      IM:

7. GP ANGLE: 3.00      34:1: IS CLEAR      20:1: IS CLEAR      TCH: 58.9

8. MSA FROM: RW31 3200

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -17°C OR ABOVE 54°C.  
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
\*LNAV ONLY  
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV ALL CATS VISIBILITY TO 7/8 SM AND LNAV/VNAV ALL CATS VISIBIITY TO 1 1/8 SM AND LNAV CATS C/D VISIBIITY TO 1 1/8 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.  
WAAS CHANNEL #90412  
REFERENCE PATH ID: W31A  
CHART FAS OBST: 1289 TREE 433806N/0942437W.  
HOLD NW, RT, 129.96 INBOUND  
LTP HAE: 325.6 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT C 900-2 1/4, CAT D 900-2 1/2

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	1467	1/2	305	1467	1/2	305	1467	1/2	305	1467	1/2	305			
LNAV/VNAV DA	1581	1	419	1581	1	419	1581	1	419	1581	1	419			
LNAV MDA	1560	1/2	398	1560	1/2	398	1560	5/8	398	1560	1	398			
CIRCLING	1640	1	478	1660	1	498	1980	2 1/4	818	1980	2 1/2	818			



CHANGES - REASONS

1. DELETED ALL FEEDERS - PER ATC AND FPT REQUEST
2. DELETED NOTE, PROCEDURE NA FOR ARRIVALS AT BLEND VIA V170 EASTBOUND, AND ARRIVALS AT GRUVE VIA V219 SOUTHWEST BOUND - NO LONGER NEEDED
3. CHANGED NOTE FROM "FOR UNCOMPENSATED BARO.VNAV SYSTEMS, LNAVNAV NA BELOW .17C (2F) OR ABOVE 46C (114F)" TO "FOR UNCOMPENSATED BARO.VNAV SYSTEMS, LNAVNAV NA BELOW .17C OR ABOVE 46C" - UPDATED PER 19H FORMAT
4. DELETED CHART NOTE: DME/DME RNP-0.3 NA -NO LONGER REQUIRED
5. ADDED PBN REQUIREMENTS NOTE, RNP APCH - PER 8260.58A REQUIREMENT
6. ADDED "CHART CIRCLING ICON" TO ADDITIONAL FLIGHT DATA - NEW CIRCLING CRITERIA APPLIED
7. CHANGED CIRCLING CAT B MDA/HAA FROM 1640/478 TO 1640/498, CAT C FROM 1640/478 TO 1980/818, AND CAT D FROM 1720/558 TO 1980/818 - NEW CIRCLING CRITERIA APPLIED
8. CHANGED CIRCLING CAT C VISIBILITY FROM 1 1/2 TO 2 1/4, CAT D FROM 2 TO 2 1/2 - PER VIS CHECK CALC
9. DELETED NOTE, "FOR INOPERATIVE MALSR WHEN USING ST. JAMES ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY 1/2 MILE" AND ADDED NOTE TO BACK OF -9, "FOR INOPERATIVE ALS WHEN USING ST. JAMES ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY 1/2 MILE" - PER .19H FORMAT
10. MOVED BACKUP ALTIMETER SETTING NOTES TO GENERAL REMARKS ON THE 8260-9 - AWOS IS ON WMSCR
11. ADD CHART NOTE FOR INOPERTIVE ALS - PER VISCHECK CALCULATOR
12. DELETED NOTE FROM ALTERNATE WEATHER: NA WHEN LOCAL WEATHER NOT AVAILABLE - NO LONGER REQUIRED
13. RAISED LNAV CAT C VISIBILITY FROM 1/2 TO 5/8 SM - PER VISCHECK CALCULATOR
14. UPDATED RWY COORDINATES , FPAP AND COURSE WIDTH AT THRESHOLD, CRC CHANGED FROM 514858EC TO D19B425B - NEW SURVEY .

12/11/2018: THIS AN UPDATED COPY OF THE FORM DEVELOPED ON 10/12/2018.

1. CHANGED FPAP COORDINATES FROM 433819.7230N/0942436.6920W TO 433921.7380N/0942604.8165W.

2. CHANGED CRC REMAINDER FROM D19B425B TO FC456D79.

COORDINATED WITH:

A4A ☐

ALPA ☒

AOPA ☒

APA ☐

HAI ☐

NBAA ☒

OTHER: ZMP, AMGR

FLIGHT CHECKED BY

JEFFREY W HARING

Digitally signed by

WARDELL HENNING

Jan 17, 2019

OFFICE

FICO

DATE

1/8/19

DEVELOPED BY

HERMAN C. ROGERS

Digitally signed by

HERMAN C ROGERS

Dec 11, 2018

OFFICE

AJV-5432

DATE

10/12/2018

APPROVED BY

PATRICK MULQUEEN

Digitally signed by

WARDELL HENNING

Jan 17, 2019

OFFICE

AJV-5430

DATE

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KFRM
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	433819.7230N
LTP/FTP LONGITUDE	0942436.6920W
LTP/FTP ELLIPSOIDAL HEIGHT	+03256
FPAP LATITUDE	433921.7380N
FPAP LONGITUDE	0942604.8165W
THRESHOLD CROSSING HEIGHT (TCH)	00058.9
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1072
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	FC456D79

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03537
FPAP ORTHOMETRIC HEIGHT	+03537

