

**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> KFSD	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 3	<u>ORIGINAL/AMENDMENT</u> 1E	<u>CITY</u> SIOUX FALLS	<u>STATE</u> SD		
<u>AIRPORT ELEVATION</u> 1430	<u>TDZE</u> 1424	<u>SUPERSEDED</u> RNAV (GPS) RWY 3	<u>ORIGINAL/AMENDMENT</u> 1D	<u>DATED</u> 06/18/2020	<u>MAG VAR</u> 5E	<u>EPOCH YEAR</u> 2000
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 15 JUNE 2023	<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>
JILRO	IAF	KASME		TF	FB	1.00	308.57	15.64	4000
DOLTS	IAF	KASME		TF	FB	1.00	084.92	12.26	4000
KASME	IF	RANOE		TF	FB	1.00	029.77	7.00	3400
RANOE	FAF	VULKN/2.20 NM TO RW03		TF	FB	0.30	029.83	3.84	
VULKN/2.20 NM TO RW03		RW03	MAP	TF	FO	0.30	029.83	2.20	
RW03	MAP	1674 MSL		CA			029.83		
1674 MSL		MOPIE		DF	FO	1.00			4000

**MISSED APPROACH**

**MAP:**

LPV: DA  
 LNAV/VNAV: DA  
 LNAV: RW03

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 4000 DIRECT MOPIE AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

QUALITY  
10  
CHECKED

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. PROFILE STARTS AT KASME

3. FAF: 029.83FAF: RANOE

DIST FAF TO MAP: 6.04DIST FAF TO THLD: 6.04

4. MIN ALT: KASME 4000, RANOE 3400, VULKN/2.20 NM TO RW03 2160

5. DIST TO THLD FROM OM:MM:IM:150 HAT:250 HAT: 0.62GS ANT:

6. MIN GP INCPT: 3400GP ALT AT PFAF : RANOE 3400OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 54.3

8. MSA FROM: RW03 4500

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20°C OR ABOVE 54°C.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT JILRO ON T400 NORTHEAST BOUND.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DOLTS ON V80-148 SOUTHWEST BOUND.  
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4500 AND LNAV CATS C/D VISIBILITY TO 1 3/8 SM.

ADDITIONAL FLIGHT DATA:

HOLD NE, RT, 210.01 INBOUND.  
CHART FAS OBST: 1652 TOWER (46-000407) 433248N/0964556W.  
CHART VDP AT 1.38 NM TO RW03.  
WAAS CHANNEL # 97722  
REFERENCE PATH ID: W03A  
LTP HAE: 407.5 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/2, 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
LPV DA	1674	2400	250	1674	2400	250	1674	2400	250	1674	2400	250			
LNAV/VNAV DA	1741	2400	317	1741	2400	317	1741	2400	317	1741	2400	317			
LNAV MDA	1920	2400	496	1920	2400	496	1920	5000	496	1920	5000	496			
CIRCLING	1980	1	550	1980	1	550	2060	1 3/4	630	2200	2 1/2	770			



**CHANGES - REASONS**

1. INCORPORATED P-NOTAMS 8/2498 AMDT 1 C AND 06/6989 AMDT 1D.
2. TERMINAL ROUTES: PROFILE LINE 3: UPDATED FAC FROM 029.84 TO 029.83 - UPDATED EVALUATION.
3. PROFILE LINE 5: UPDATED 250 HAT: FROM "0.61" TO "0.62" AND MOVED FROM ADDITIONAL FLIGHT DATA - UPDATED EVALUATION AND DOCUMENTATION CRITERIA.
4. DELETED ASTERISK FROM MIN ALT IN PROFILE LINE 4, VDP NOTE AND ASSOCIATED "" LNAV ONLY" NOTE IN ADDITIONAL FLIGHT DATA - UPDATED IAW 8260.19I, 1-1-5.F(12).
5. PBN REQUIREMENTS NOTE: UPDATED FROM "RNP APCH" TO "RNP APCH - GPS" - UPDATED DOCUMENTATION CRITERIA.
6. NOTES: UPDATED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C (2°F) OR ABOVE 54°C (130°F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20°C OR ABOVE 54°C" - UPDATED WEATHER STUDY AND EVALUATION.
7. NOTES: UPDATED PLANVIEW NOTE: FROM "PROCEDURE NA FOR ARRIVALS AT JILRO ON V250 NORTHEAST BOUND" TO "PROCEDURE NA FOR ARRIVALS AT JILRO ON T400 NORTHEAST BOUND" - V250 CANCELLED/T400 IN PUBLISHED.
8. ADDITIONAL FLIGHT DATA: DELETED "FAS OBST: 1745 AAO 433021N/0964857W" AND UPDATED CHARTED FAS DATA OBST FROM "1651 TOWER 433248N/0964556W" TO "1652 TOWER (46-000407)
9. ADDITIONAL FLIGHT DATA: UPDATED VDP DISTANCE FROM 1.39 TO 1.38 - UPDATED EVALUATION.
10. ADDITIONAL FLIGHT DATA: DELETED "CHART CIRCLING ICON" - NO LONGER REQUIRED.
11. ADDITIONAL FLIGHT DATA: DELETED "CHART ASR" - NO LONGER REQUIRED BY CRITERIA.
12. ALTERNATE MINIMUMS: ADDED "NA WHEN LOCAL WEATHER NOT AVAILABLE" - IAW 8260.19I 8-6-11B(4) AND MEMO.
13. MINIMUMS: UPDATED LNAV/VNAV DA/HAT FROM 1726/302 TO 1741/317 - NEW CONTROLLING OBST/EVALUATION.
14. MINIMUMS: UPDATED CIRCLING CAT A MDA/HAA FROM 1960/530 TO 1980/550 - NEW CONTROLLING OBST/EVALUATION.
15. FAS DATA: LTP/FTP LAT/LONG: UPDATED FROM "433421.4290N/0964513.3275W" TO "433421.4210N/0964513.3350W" - UPDATED EVALUATION.
16. FAS DATA: FPAP LAT UPDATED FROM "433534.5200N" TO "433534.5080N" - UPDATED EVALUATION.
17. FAS DATA: CRC REMAINDER CHANGED FROM "D7E90523" TO "663D3CB6" - LTP/FTP AND FPAP DATA CHANGED.

**COORDINATED WITH:**

**A4A** ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAL** ☐ **NBAA** ☐ **OTHER:** ZMP, FSD ATCT, ARPT MGR

**FLIGHT CHECKED BY**  
MICHAEL A GREENWOOD

*Digitally signed by*  
**JASON KRETSCHMER**  
Mar 28, 2023

**OFFICE**  
FPO

**DATE**  
03/22/2023

**DEVELOPED BY**  
PATRICK COMBS

*Digitally signed by*  
**PATRICK W COMBS**  
Nov 15, 2022

**OFFICE**  
AJV-A421

**DATE**  
11/09/2022

**APPROVED BY**  
MARLON ROBINSON

*Digitally signed by*  
**JASON KRETSCHMER**  
Nov 18, 2022

**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	KFSD
RUNWAY	RW03
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W03A
LTP/FTP LATITUDE	433421.4210N
LTP/FTP LONGITUDE	0964513.3350W
LTP/FTP ELLIPSOIDAL HEIGHT	+04075
FPAP LATITUDE	433534.5080N
FPAP LONGITUDE	0964403.2000W
THRESHOLD CROSSING HEIGHT (TCH)	00054.3
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0008
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	663D3CB6

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+04339
FPAP ORTHOMETRIC HEIGHT	+04339

