

**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> 84D	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 13	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> EAGLE BUTTE	<u>STATE</u> SD
<u>AIRPORT ELEVATION</u> 2449	<u>TDZE</u> 2445	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u> NONE	<u>DATED</u>
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 5E
				<u>EPOCH YEAR</u> 2030
				<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>
JOBOD		TAGRE		TF	FB	1.00	265.30	17.36	4500
TAGRE	IAF	OBBAN	NOPT	TF	FB	1.00	218.99	5.00	4100
EDIRE	IAF	OBBAN	NOPT	TF	FB	1.00	129.69	10.00	4100
OBBAN	IF/IAF	HAMKA		TF	FB	1.00	129.81	5.00	4100
HAMKA	FAF	CADVI/1.96 NM RW13		TF	FB	0.30	129.87	3.14	
CADVI/1.96 NM RW13		RW13	MAP	TF	FO	0.30	129.87	1.96	
RW13	MAP	4100 MSL		CA			129.87		4100
4100 MSL		OBBAN		DF	FO	1.00			4100

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW13

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4100 THEN RIGHT TURN DIRECT OBBAN AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
- HOLD NW OBBAN, RT, 129.81 INBOUND, 4100 IN LIEU OF PT (IF/IAF), MAX 6000.
- FAC:** 129.87 **FAF:** HAMKA **DIST FAF TO MAP:** 5.10 **DIST FAF TO THLD:** 5.10
- MIN ALT:** OBBAN 4100, HAMKA 4100, CADVI/1.96 NM RW13 3100
- DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **479 HAT:** 1.40 **GS ANT:**
- MIN GP INCPT:** 4100 **GP ALT AT PFAF:** HAMKA 4100 **OM:** **MM:** **IM:**
- GP ANGLE:** 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 43.2
- MSA FROM:** RW13 4100



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: BARO-VNAV NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT JOBOD ON V344 NORTHEAST BOUND.
CHART NOTE: USE PIR ALTIMETER SETTING; WHEN NOT RECEIVED, PROCEDURE NA.

ADDITIONAL FLIGHT DATA:

CHART PIR ASOS.
CHART FAS OBST: 2595 WATER_TOWER (46-047574) 445935N/1011443W.
WAAS CHANNEL # 78447
REFERENCE PATH ID: W13A
LTP HAE: 720.1 M

MINIMUMS:

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

ALTERNATE: NA

<u>CATEGORY:</u>	A			B			C			D			E		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
LPV DA	2924	1 3/8	479	2924	1 3/8	479		NA			NA				
LNAV/VNAV DA	2966	1 1/2	521	2966	1 1/2	521		NA			NA				
LNAV MDA	3080	1	635	3080	1	635		NA			NA				
CIRCLING	3240	1	791	3240	1	791		NA			NA				

CHANGES - REASONS

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA

OTHER: ZMP, HON FSS, AMGR

FLIGHT CHECKED BY

NATHAN J CHOTT

Digitally signed by

RAKE MCGRAW
Mar 05, 2026

OFFICE
AJF

DATE
03/04/2026

DEVELOPED BY

RAYMOND JOHNSON

Digitally signed by

RAKE MCGRAW
Mar 05, 2026

OFFICE
AJV-A4

DATE
10/29/2025

APPROVED BY

RAKE MCGRAW

Digitally signed by

RAKE MCGRAW
Mar 05, 2026

OFFICE
AJV-A422

DATE

TITLE
MANAGER



AIRPORT ID
84D

PROCEDURE NAME
RNAV (GPS) RWY 13

ORIGINAL/AMENDMENT
ORIG

CITY
EAGLE BUTTE

STATE
SD

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	84D
RUNWAY	RW13
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W13A
LTP/FTP LATITUDE	445918.4050N
LTP/FTP LONGITUDE	1011524.4445W
LTP/FTP ELLIPSOIDAL HEIGHT	+07201
FPAP LATITUDE	445815.4740N
FPAP LONGITUDE	1011355.5925W
THRESHOLD CROSSING HEIGHT (TCH)	00043.2
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1472
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER 15296906

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+07413
FPAP ORTHOMETRIC HEIGHT	+07413



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

<u>AIRPORT ID</u> 84D	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 13	<u>AMDT NO.</u> ORIG	<u>CITY</u> EAGLE BUTTE	<u>STATE</u> SD	<u>AIRPORT ELEVATION</u> 2449	<u>FACILITY</u> RNAV
--------------------------	--	-------------------------	----------------------------	--------------------	----------------------------------	-------------------------

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

<u>FROM</u> JOBOD	<u>TO</u> TAGRE
----------------------	--------------------

<u>RNP</u> 1.00	<u>DISTANCE</u> 17.36	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
--------------------	--------------------------	------------	------------	------------	-------------

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	450815.00N/1011718.00W	2523	215	8	4B	1000				AT977	4500
TERRAIN	450812.00N/1011718.00W	2322 (2300)								AS1500	3800

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

<u>FROM</u> TAGRE	<u>TO</u> OBBAN
----------------------	--------------------

<u>RNP</u> 1.00	<u>DISTANCE</u> 5.00	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
--------------------	-------------------------	------------	------------	------------	-------------

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	450709.00N/1012800.00W	2563	215	8	4B	1000				AT537	4100
TERRAIN	450709.00N/1012803.00W	2362 (2400)								AS1500	3900

COMPUTATIONS

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

SEGMENT REMARKS:



AIRPORT ID
84D

PROCEDURE NAME
RNAV (GPS) RWY 13

AMDT NO.
ORIG

CITY
EAGLE BUTTE

STATE
SD

AIRPORT ELEVATION
2449

FACILITY
RNAV

INITIAL

FROM
EDIRE

TO
OBBAN

RNP
1.00

DISTANCE
10.00

PAT

MAP

HAT

HMAS

<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	450706.00N/1013027.00W	2599	215	8	4B	1000				AT501	4100
TERRAIN	450706.00N/1013027.00W	2398 (2400)								AS1500	3900

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM
OBBAN (IF/IAF)

TO
HAMKA

RNP
1.00

DISTANCE
5.00

PAT

MAP

HAT

HMAS

<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	450400.00N/1011921.00W	2605	215	8	4B	500				AT900	4100
TERRAIN	450400.00N/1011951.00W	2404 (2400)								AS1500	3900

COMPUTATIONS

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

SEGMENT REMARKS:



AIRPORT ID
84D

PROCEDURE NAME
RNAV (GPS) RWY 13

AMDT NO.
ORIG

CITY
EAGLE BUTTE

STATE
SD

AIRPORT ELEVATION
2449

FACILITY
RNAV

FINAL: LPV

FROM
HAMKA

TO
RW13

RNP
0.30

DISTANCE
5.10

PAT

MAP
DA

HAT
479

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
FENCE (46-020844)	445917.27N/1011530.02W	2437	50	20	2C		34:1			AC20 RA229	2924

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM
HAMKA

TO
RW13

RNP
0.30

DISTANCE
5.10

PAT

MAP
DA

HAT
521

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
WATER_TOWER (46-047574)	445935.08N/1011443.08W	2595	20	3	1A	142				RA229	2966

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV

FROM
HAMKA

TO
CADVI/1.96 NM RW13

RNP
0.30

DISTANCE
3.14

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	450215.00N/1012036.00W	2609	215	8	4B	250				RA229	3100

COMPUTATIONS

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

SEGMENT REMARKS:



AIRPORT ID
84D

PROCEDURE NAME
RNAV (GPS) RWY 13

AMDT NO.
ORIG

CITY
EAGLE BUTTE

STATE
SD

AIRPORT ELEVATION
2449

FACILITY
RNAV

FINAL: LNAV STEPDOWN

FROM
CADVI/1.96 NM RW13

TO
RW13

RNP
0.30

DISTANCE
1.96

PAT

MAP
RW13

HAT
635

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
WATER_TOWER (46-047574)	445935.08N/1011443.08W	2595	20	3	1A	250				RA229	3080

COMPUTATIONS

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

SEGMENT REMARKS:

HOLD-IN-LIEU OF PT

FROM
OBBAN

TO
P-6

RNP

DISTANCE

PAT
P-6

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	450730.00N/1013745.00W	2717	215	8	4B	1000				AT383	4100
TERRAIN	450730.00N/1013745.00W	2516 (2500)								AS1500	4000

COMPUTATIONS

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

SEGMENT REMARKS:



AIRPORT ID
84D

PROCEDURE NAME
RNAV (GPS) RWY 13

AMDT NO.
ORIG

CITY
EAGLE BUTTE

STATE
SD

AIRPORT ELEVATION
2449

FACILITY
RNAV

MISSED APPROACH: LPV

FROM
DA **TO**
OBBAN

RNP 0.30 **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
2503

<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				
TOWER (46-039763)	450131.90N/1011423.50W	3018	250	50	4D	1000					4100
TERRAIN	445757.00N/1011309.00W	2490 (2500)								AS1500	4000

COMPUTATIONS

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

SEGMENT REMARKS:

MISSED APPROACH: LNAV/VNAV

FROM
DA **TO**
OBBAN

RNP 0.30-1.00 **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
2595

<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				
TOWER (46-039763)	450131.90N/1011423.50W	3018	250	50	4D	1000					4100
TERRAIN	445757.00N/1011309.00W	2490 (2500)								AS1500	4000

COMPUTATIONS

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

SEGMENT REMARKS:



AIRPORT ID
84D

PROCEDURE NAME
RNAV (GPS) RWY 13

AMDT NO.
ORIG

CITY
EAGLE BUTTE

STATE
SD

AIRPORT ELEVATION
2449

FACILITY
RNAV

WX SERVICE
ASOS

LOCATION
PIR

HRS OPERATION
24

ALTIMETER SOURCE
PIR

DISTANCE
54.79

WMSCR
Y

ADJUSTMENTS
229

BACK-UP WX SERVICE

LOCATION

HRS OPERATION

ALTIMETER SOURCE

DISTANCE

WMSCR

ADJUSTMENTS

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
K84D 2449, KPIR 1720
RA = 228.3.

PRIMARY NAVAID

MONITOR POINT

HRS OPERATION

CAT

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW13 - MIRL (PCL), PAPI-2L (PCL)	NPI-G	
RW31 - MIRL (PCL), PAPI-2L (PCL)	NPI-G	

GLIDESLOPE ANGLE
3.00

ELEV RWY THRESHOLD
2432.2

TCH
43.2

ELEV GS ANTENNA

DISTANCE FROM RWY

VGSI ANGLE
3.00

TCH
43.2

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD
ON CENTERLINE

FT FROM THRESHOLD
FT FROM CENTERLINE

DISPLACED THRESHOLD DISTANCE

CRITICAL TEMPERATURES

CRITICAL LOW
-19C

CRITICAL HIGH
+54C

ACT
-19C

APT ISA
+10.15C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 733 HIGH TEMP 1161.

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:



AIRPORT ID
84D

PROCEDURE NAME
RNAV (GPS) RWY 13

AMDT NO.
ORIG

CITY
EAGLE BUTTE

STATE
SD

AIRPORT ELEVATION
2449

FACILITY
RNAV

PART C: GENERAL REMARKS:

TREE VEGETATION HEIGHT 60 FEET PER FPT.
VDP NOT PUBLISHED; FULL TIME REMOTE ALTIMETER IN USE.

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

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	3.22
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	134.87
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	2500
DISTANCE FROM	THLD	TO 1500FT POINT	4.90
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	134.87
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	2500

THRESHOLD COORDINATES (IF STR-IN) 445918.41N/1011524.44W
ARP COORDINATES 445903.76N/1011503.76W
RUNWAY APCH END AND DIST FURTHEST FROM ARP RUNWAY 31 DISTANCE 0.35 NM
FAF COORDINATES 450254.43N/1012030.06W
FIX NAME COORDINATES

REMARKS

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
RAYMOND JOHNSON	AJV-A4	10/29/2025	AERONAUTICAL INFORMATION SPECIALIST

