

**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</u> PIERRE RGNL	<u>AIRPORT ID</u> KPIR	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 31	<u>ORIGINAL/AMENDMENT</u> 1A	<u>CITY</u> PIERRE	<u>STATE</u> SD
<u>AIRPORT ELEVATION</u> 1744	<u>TDZE</u> 1720	<u>SUPERSEDED</u> RNAV (GPS) RWY 31	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 05/21/2020	<u>MAG VAR</u> 8E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 25 FEBRUARY 2021	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2000

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
CABKU		JOPAK		TF	FB	1.00	129.05	15.05	4000
CHANS		WESAP		TF	FB	1.00	245.38	25.03	4000
HATKA		WESAP		TF	FB	1.00	182.80	15.06	4000
JOPAK	IAF	HOGEX	NOPT	TF	FB	1.00	042.69	7.30	4000
WESAP	IAF	HOGEX	NOPT	TF	FB	1.00	222.87	7.21	4000
HOGEX	IF/IAF	BRULE		TF	FB	1.00	312.79	5.92	3600
BRULE	FAF	ZUSPO/2.50 NM TO RW31		TF	FB	0.30	312.71	3.24	
ZUSPO/2.50 NM TO RW31		RW31	MAP	TF	FO	0.30	312.71	2.50	
RW31	MAP	1920 MSL		CA			312.71		
1920 MSL		FASIP		DF	FO	1.00			4000

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW31

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 4000 DIRECT FASIP AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



**PROFILE:**

- 1. **PT**      **SIDE OF COURSE**                      **OUTBOUND**                      **FT WITHIN**                      **MILES OF (IAF)**
- 2. HOLD SE HOGEX, RT, 312.79 INBOUND, 4000 FT. IN LIEU OF PT (IAF), MAX 6000.
- 3. **FAC:** 312.71      **FAF:** BRULE                      **DIST FAF TO MAP:** 5.74                      **DIST FAF TO THLD:** 5.74
- 4. **MIN ALT:** HOGEX 4000, BRULE 3600, ZUSPO/2.50 NM TO RW31 2560\*
- 5. **DIST TO THLD FROM OM:**                      **MM:**                      **IM:**                      **150 HAT:**                      **200 HAT:** 0.46                      **GS ANT:**
- 6. **MIN GP INCPT:** 3600                      **GP ALT AT FAF :** BRULE 3600                      **OM:**                      **MM:**                      **IM:**
- 7. **GP ANGLE:** 3.00                      **34:1:** IS CLEAR                      **20:1:** IS CLEAR                      **TCH:** 55.5
- 8. **MSA FROM:** RW31 4200

**PBN REQUIREMENTS NOTE:**

RNP APCH

**NOTES:**

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -26°C OR ABOVE 54°C.  
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CABKU ON V26 SOUTHWEST BOUND.  
 CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 3/4 SM.  
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HATKA ON V263 NORTHEAST BOUND.

**ADDITIONAL FLIGHT DATA:**

CHART CIRCLING ICON.  
 CHART VDP AT 0.96 NM TO RW31\*  
 \*LNAV ONLY  
 WAAS CHANNEL #65623  
 REFERENCE PATH ID: W31A  
 CHART FAS OBST: 1765 TOWER 442224N/1001642W.  
 CHART: 1822 TOWER 442102N/1001344W.  
 HOLD NW, RT, 132.52 INBOUND  
 LTP HAE: 500.1 M

**MINIMUMS:**

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

**ALTERNATE:** NA  STANDARD - CAT D 800-2 1/4

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	1920	1/2	200	1920	1/2	200	1920	1/2	200	1920	1/2	200				
LNAV/VNAV DA	1970	1/2	250	1970	1/2	250	1970	1/2	250	1970	1/2	250				
LNAV MDA	2020	1/2	300	2020	1/2	300	2020	1/2	300	2020	1/2	300				
CIRCLING	2240	1	496	2300	1	556	2400	1 3/4	656	2460	2 1/4	716				



**CHANGES - REASONS**

1. SPLIT AND UPDATED CHART NOTE: FROM "PROCEDURE NA FOR ARRIVALS AT HATKA ON V263 EASTBOUND, AND ARRIVALS AT CABKU ON V26 SOUTHWEST BOUND AND AT CHANS ON V26 EASTBOUND" TO "PROCEDURE NA FOR ARRIVALS AT HATKA ON V263 NORTHEAST BOUND" AND "PROCEDURE NA FOR ARRIVALS AT CABKU ON V26 SOUTHWEST BOUND"; DELETES "AT CHANS ON V26 EASTBOUND" - HON VOR MON.
2. DELETED "NA WHEN LOCAL WEATHER NOT AVAILABLE" FROM ALTERNATE MINS - NO BACKUP OR CONTINGENCY ALTIMETER IN USE.

**COORDINATED WITH:**

**A4A**  **ALPA**  **AOPA**  **APA**  **HAI**  **NBAA**  **OTHER:** ZMP, AMGR

**FLIGHT CHECKED BY**

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT:  
FLIGHT INSPECTION REVIEW NOT REQUIRED

**OFFICE**

*Digitally signed by*

**DATE**

**WARDELL HENNING**

Mar 19, 2020

**DEVELOPED BY**

WARDELL HENNING (PATRICK COMBS)

*Digitally signed by*

**WARDELL HENNING**

Mar 19, 2020

**OFFICE**

AJV-A432

**DATE**

02/14/2020

**APPROVED BY**

GEORGE DAVIS

*Digitally signed by*

**WARDELL HENNING**

Mar 19, 2020

**OFFICE**

AJV-A430

**DATE**

**TITLE**  
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KPIR
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	442212.9045N
LTP/FTP LONGITUDE	1001637.5040W
LTP/FTP ELLIPSOIDAL HEIGHT	+05001
FPAP LATITUDE	442321.7995N
FPAP LONGITUDE	1001756.2850W
THRESHOLD CROSSING HEIGHT (TCH)	00055.5
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0648
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	349BFDE5

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+05236
FPAP ORTHOMETRIC HEIGHT	+05236

