

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29**

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> ILS OR LOC RWY 31	<u>ORIGINAL/AMENDMENT</u> 13	<u>CITY</u> PIERRE	<u>STATE</u> SD
<u>AIRPORT ELEVATION</u> 1744	<u>TDZE</u> 1720	<u>SUPERSEDED</u> ILS OR LOC RWY 31	<u>ORIGINAL/AMENDMENT</u> 12C	<u>DATED</u> 07/21/2016	<u>MAG VAR</u> 8E
<u>FACILITY</u> I-PIR	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 21 MAY 2020	<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
PIR VORTAC		BRULE INT/I-PIR 7.21 DME					181.32	6.03	4000
CABKU/PIR 14.00 DME CCW	IAF	FILTA/I-PIR 16.64 DME	NOPT				14.00 DME ARC (PIR LR-158)		4000
HATKA/PIR 14.00 DME CW	IAF	FILTA/I-PIR 16.64 DME	NOPT				14.00 DME ARC (PIR LR-141)		4000
FILTA/I-PIR 16.64 DME	IF	BRULE INT/I-PIR 7.21 DME					312.65	9.43 (I-PIR)	3600

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.74 NM AFTER BRULE INT/I-PIR 7.21 DME OR AT I-PIR 1.47 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2400 THEN CLIMBING RIGHT TURN TO 4000 DIRECT PIR VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**
2. HOLD SE BRULE, RT, 312.65 INBOUND, 3600 FT. IN LIEU OF PT (IAF), MAX 6000.
3. **FAC:** 312.65 **FAF:** BRULE INT/I-PIR 7.21 DME **DIST FAF TO MAP:** 5.74 **DIST FAF TO THLD:** 5.74
4. **MIN ALT:** BRULE INT/I-PIR 7.21 DME 3600, ZUSPO INT/I-PIR 3.97 DME 2240*
5. **DIST TO THLD FROM OM:** 5.74 **MM:** **IM:** **150 HAT:** **GS ANT:** 1060
6. **MIN GS INCPT:** 3600 **GS ALT AT FAF :** BRULE INT/I-PIR 7.21 DME 3600 **OM:** **MM:** **IM:**
7. **GP ANGLE:** 3.00 **34:1:** **20:1:** **TCH:** 55.5
8. **MSA FROM:** PIR VORTAC 4200



EQUIPMENT REQUIREMENTS NOTES:

NOTES:

CHART PROFILE NOTE: USE I-PIR DME WHEN ON THE LOCALIZER COURSE.
 CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 31 CAT C/D VISIBILITY TO 7/8 SM.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON PIR VORTAC AIRWAY RADIALS 151 CW 218.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
 CHART PIR R-242 AT CABKU.
 CHART PIR R-040 AT HATKA.
 CHART VDP AT 2.19 DME*
 DISTANCE VDP TO THLD 0.72 NM
 * LOC ONLY
 CHART FAS OBST: 1720 FENCE 442152N/1001619W.
 1772 AAO 441727N/1001254W.
 HOLD E, RT, 256.00 INBOUND

MINIMUMS:

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

ALTERNATE: NA ILS: STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE; LOC: STANDARD CAT D 800-2 1/4 - NA WHEN LOCAL WEATHER NOT AVAILABLE.

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</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>
S-ILS 31	1920	1/2	200	1920	1/2	200	1920	1/2	200	1920	1/2	200			
S-LOC 31	1980	1/2	260	1980	1/2	260	1980	1/2	260	1980	1/2	260			
CIRCLING	2240	1	496	2300	1	556	2400	1 3/4	656	2460	2 1/4	716			



CHANGES - REASONS

1. REMOVED PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT - PER FPT AND NEW SURVEY.
2. INTERMEDIATE SEGMENT COURSE/DISTANCE CHANGED FROM 312.66/9.52 TO 312.65/9.43 - FAF COORDINATES UPDATE.
3. HOLD-IN-LIEU SEGMENT INBOUND COURSE CHANGED FROM 312.66 TO 312.65 - FAF COORDINATES UPDATE.
4. TCH CHANGED IAW AIRNAV FROM 56.1 TO 55.5 - DESIGN TCH PER FPT.
5. UPDATED FIX "BRULE" TO "BRULE INT," AND DISTANCE FROM BRULE INT TO I-PIR FROM 7.23 DME TO 7.21 DME - FORMATED PER 8260.19H, PARA 2-10-1.
6. FEEDER SEGMENT DISTANCE FROM PIR VORTAC TO BRULE INT CHANGED FROM 6.06 NM TO 6.03 NM - UPDATED FAF COORDINATES.
7. UPDATED DIST FROM FAF TO MAP AND FAF TO THLD FROM 5.65 NM TO 5.74 NM - UPDATED FAF COORDINATES.
8. UPDATED MISSED APPROACH MAP FROM LOC: 5.65 NM AFTER BRULE OR AT I-PIR 1.47 DME FIX, TO 5.74 NM AFTER BRULE INT/I-PIR 7.21 DME OR AT I-PIR 1.47 DME - PER 8260.19H, PARA 8-2-6,G.
9. CHANGED FEEDER COURSE FROM PIR VORTAC TO BRULE INT FROM 181.99 TO 181.32 - FAF COORDINATES UPDATE.
10. ADDED PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON PIR VORTAC AIRWAY RADIALS 151 CW 218
11. UPDATED LOC MDA/HAT ALL CATS FROM 2140/420 TO 1980/260 AND CAT C/D VIS FROM 3/4 TO 1/2 - NEW CONTROLLING OBSTACLES.
12. UPDATED CIRCLING MDA/HAA CAT B FROM 2240/496 TO 2300/556, CAT C FROM 2260/516 TO 2400/656, CAT D FROM 2300/556 TO 2460/716, AND CAT C VIS FROM 1 1/2 TO 1 3/4, CAT D VIS FROM 2 TO 2 1/4 - UPDATED CIRCLING CRITERIA PER 8260.3D.
13. ADDED "CHART CIRCLING ICON" TO ADDITIONAL FLIGHT DATA - UPDATED CIRCLING CRITERIA PER 8260.3D.
14. ADDED FINAL SDF ZUSPO - TO MAXIMIZE LOCALIZER MDA.
15. ADDED "CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 31 CAT C/D VISIBILITY TO 7/8 SM" - PER 8260.3D, TABLE 3-3-1.
16. CHANGED "CHART VDP AT 2.63 DME*" AND "DISTANCE VDP TO THLD 1.16 MILES" TO CHART VDP AT 2.19 DME* AND "DISTANCE VDP TO THLD 0.72 NM" - UPDATED FAF COORDINATES.
17. FAS OBST CHANGED FROM 1879 TREE TO 1720 FENCE - UPDATED FAF COORDINATES.
18. ADDED "1772 AAO" TO ADDITIONAL FLIGHT DATA AS A 7:1 289 AAO - PER 8260.19H, PARA 8-6-10, (C).
19. ADDED "NA WHEN LOCAL WEATHER NOT AVAILABLE" TO ILS ALTERNATE MINIMUMS AND "CAT D 800-2 1/4 NA WHEN LOCAL WEATHER NOT AVAILABLE" TO LOC ALTERNATE MINIMUMS - PER 8260.19H, 8-6-11 (B) 6.

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:** CEN-FPT, ZMP

FLIGHT CHECKED BY

SUSANNA ROBERTS

Digitally signed by

WARDELL HENNING

Jan 06, 2020

OFFICE

FICO

DATE

12/31/19

DEVELOPED BY

WARDELL HENNING (TODD BOWLING)

Digitally signed by

WARDELL HENNING

Jan 06, 2020

OFFICE

AJV-A432

DATE

07/18/2019

APPROVED BY

LONNIE EVERHART

Digitally signed by

WARDELL HENNING

Jan 06, 2020

OFFICE

AJV-A430

DATE

TITLE
MANAGER

