

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR OR TACAN STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.23**

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.

AIRPORT RAPID CITY RGNL	AIRPORT ID KRAP	PROCEDURE NAME VOR OR TACAN RWY 14	ORIGINAL/AMENDMENT ORIG-G	CITY RAPID CITY	STATE SD	
AIRPORT ELEVATION 3204	TDZE 3191	SUPERSEDED VOR OR TACAN RWY 14	ORIGINAL/AMENDMENT ORIG-F	DATED 11/14/2013	MAG VAR 13E	EPOCH YEAR 1965
FACILITY RAP	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE 10 OCTOBER 2019	REQUIRED EFFECTIVE DATE ROUTINE	CANCEL/SUSPEND		

TERMINAL ROUTES THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 19-19.

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
RAP VORTAC		FERMI/10.00 DME/RADAR					320.93	10.00	5600
AWAIT/RAP 16.00 DME CCW	IAF	ELBOO/RAP 16.00 DME	NOPT				16.00 DME ARC		5600
ANDDD/RAP 16.00 DME CW	IAF	BUSNE/16.00 DME	NOPT				16.00 DME ARC		7700
BUSNE/RAP 16.00 DME CW		JAXOS/RAP 16.00 DME					16.00 DME ARC		7000
JAXOS/RAP 16.00 DME CW		ELBOO/RAP 16.00 DME					16.00 DME ARC		6100
ELBOO/RAP 16.00 DME	IF	FERMI/10.00 DME/RADAR					140.93	6.00 (RAP R-321) ←	4800

MISSED APPROACH

MAP:

4.81 NM AFTER FERMI/RAP 10.00 DME/RADAR OR AT RAP 5.19 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5600 DIRECT RAP VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5600.
(TACAN AIRCRAFT CONTINUE ON RAP R-142 TO MUDDY 5.00 DME AND HOLD SE, RT, 321.98 INBOUND).

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT R SIDE OF COURSE 320.93 OUTBOUND 5600 FT WITHIN 15 MILES OF FERMI/RADAR (IAF)
-
- FAC: 140.93 FAF: FERMI/10.00 DME/RADAR DIST FAF TO MAP: 4.81 DIST FAF TO THLD: 4.81
- MIN ALT: FERMI/10.00 DME/RADAR 4800
- MSA FROM: RAP VORTAC 360-180 5000, 180-360 8500

EQUIPMENT REQUIREMENTS NOTES:

DME OR RADAR REQUIRED.



NOTES:

CHART NOTE: RWY 14 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

ADDITIONAL FLIGHT DATA:

CHART ELLSWORTH AFB
CHART MUDDY
CHART CIRCLING ICON.
FERMI TO RW14: 3.05/50.
CHART RAP R-072 AT AWAIT.
CHART RAP R-238 AT ANDDD.
CHART RAP R-275 AT BUSNE.
CHART RAP R-300 AT JAXOS.
CHART VDP AT6.94 DME
DISTANCE VDP TO THLD 1.75 NM
CHART FAS OBST:3549 TOWER 440436N/1030644W.
HOLD SE, RT, 321.00 INBOUND

MINIMUMS:

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

ALTERNATE: NA STANDARD - CAT D 800-2 1/4, CAT E 800-2 3/4, 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
S-14	3800	1	609	3800	1	609	3800	1 3/4	609	3800	1 3/4	609	3800	2	609
CIRCLING	3800	1	596	3840	1	636	3860	1 3/4	656	3940	2 1/4	736	3960	2 3/4	756

CHANGES - REASONS

1. INCORPORATED CHANGES FROM ORIG A-F - IAW FAAO 8260.19H, PARA 8-3-4C (2).
2. ADDED FIX NAMES FOR ALL IAFS AND STEPDOWN FIXES - IAW FAAO 8260.19H, PARA 2-10-5 (A).
3. UPDATED MISSED TACAN APPROACH INSTRUCTIONS FROM CONTINUE VIA RAP R142 TO MUDDY 5 DME AND HOLD SE, RT, 322 INBOUND TO CONTINUE ON RAP R-142 TO MUDDY 5.00 DME AND HOLD SE, RT, 322.00 INBOUND - IAW FAAO 8260.19H, PARA 8-6-6 D (8).
4. DELETED CHART PLANVIEW NOTE DME OR RADAR REQUIRED AND ADDED EQUIPMENT REQUIREMENTS NOTE DME OR RADAR REQUIRED - IAW FAAO8260.19H, PARA, 8-6-8.
5. ADDED CHART NOTE: RWY 14 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - IAW FAAO8260.19H, PARA 8-6-11 K (3).
6. REMOVED BACK-UP ALTIMETER SETTING NOTE AND VDP NA WHEN USING ELLSWORTH ALTIMETER SETTING - ASOS IS ON WMSCR, NOTES ADDED TO 8260-9 FOR CONTINGENCY USE.
7. UPDATED VERTICAL DESCENT ANGLE FROM FERMI TO RW14: 3.06/47 TO FERMI TO RW 14: 3.05/50 - IAW FAAO 8260.19H, PARA 8-6-10 P AND UPDATED VGSI DATA.
8. UPDATED VDP DISTANCE FROM 6.90 TO 6.94 AND DISTANCE FROM THRESHOLD FROM 1.70 TO 1.75 NM - IAW FAAO 8260.19H, PARA 8-6-10 N AND MDA AND TCH VALUES CHANGED.
9. UPDATED FAS OBSTACLE FROM 3505 TOWER TO 3549 TOWER - UPDATED SURVEY.
10. ADDED TO ADDITIONAL FLIGHT DATA TO CHART IAFS AND STEPDOWN FIXES ON ARC - IAW FAAO 8260.19H, PARA 8-6-10 R.
11. ADDED ALTERNATE MINIMUMS FOR CAT D800-2 1/4 - CIRCLING MINIMUMS INCREASED.
12. UPDATED S-14 MINIMUMS FROM MDA/HAT 3780/589 ALL CATS TO 3800/609 ALL CATS, VISIBILITY CAT C FROM 1 1/2 TO 1 3/4.
13. CIRCLING MINIMUMS CHANGED FROM CAT A CMDA/HAA 3780/576 TO 3800/596, CAT C CMDA/HAA FROM 3840/636 TO 3860/656, CAT D FROM CMDA/HAA 3840/636 TO 3940/736, VIS FROM 2 TO 2 1/4 SM - NEW CONTROLLING OBSTACLES, NEW CIRCLING RADIUS, IAW FAAO 8260.3 CHAPTER 3.

08/12/19: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 07/15/19.

1. UPDATED TERMINAL ROUTE FROM ELBOO/RAP 16.00 DME TO FERMI/10.00 DME/RADAR COURSE GUIDANCE RADIAL FROM (RAP-141) TO (RAP R-321).



COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA OTHER: AIRPORT MANAGER, RAP ATCT, APP CON

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

Aug 14, 2019

DEVELOPED BY

FRANK JACKSON JR

Digitally signed by

FRANK JACKSON

Jun 20, 2019

OFFICE

AJV-A431

DATE

05/31/2019

APPROVED BY

GEORGE DAVIS

Digitally signed by

WARDELL HENNING

Aug 14, 2019

OFFICE

AJV-A430

DATE

TITLE

MANAGER

