

**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.

<u>AIRPORT</u> RAPID CITY RGNL	<u>AIRPORT ID</u> KRAP	<u>PROCEDURE NAME</u> VOR OR TACAN RWY 32	<u>ORIGINAL/AMENDMENT</u> 24H	<u>CITY</u> RAPID CITY	<u>STATE</u> SD	
<u>AIRPORT ELEVATION</u> 3204	<u>TDZE</u> 3160	<u>SUPERSEDED</u> VOR OR TACAN RWY 32	<u>ORIGINAL/AMENDMENT</u> 24G	<u>DATED</u> 02/05/2015	<u>MAG VAR</u> 13E	<u>EPOCH YEAR</u> 1965
<u>FACILITY</u> RAP	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 10 OCTOBER 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

**TERMINAL ROUTES**

<b><u>FROM</u></b>	<b><u>FIX TYPE</u></b>	<b><u>TO</u></b>	<b><u>FIX TYPE</u></b>	<b><u>LEG TYPE</u></b>	<b><u>FO/FB</u></b>	<b><u>RNP</u></b>	<b><u>COURSE</u></b>	<b><u>DISTANCE</u></b>	<b><u>ALTITUDE</u></b>
FARUT/RAP 7.00 DME CW	IAF	GEGLE/RAP 7.00 DME					7.00 DME ARC		4800
ELIPE/RAP 7.00 DME CCW	IAF	GEGLE/RAP 7.00 DME					7.00 DME ARC		5700
GEGLE/RAP 7.00 DME	IF	RAP VORTAC					321.78	7.00	4500

**MISSED APPROACH**

**MAP:**

3.76 NM AFTER RAP VORTAC OR AT RAP 3.76 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 5500 ON RAP R-322 THEN LEFT TURN DIRECT RAP VORTAC AND HOLD.  
(TACAN AIRCRAFT CONTINUE ON RAP R-142 TO MUDDY/RAP 5.00 DME AND HOLD SE, RT, 321.98 INBOUND).

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

1. PT L    **SIDE OF COURSE** 141.78    **OUTBOUND** 5500    **FT WITHIN** 15    **MILES OF** RAP VORTAC (IAF)
- 2.
3. **FAC:** 321.78    **FAF:** RAP VORTAC    **DIST FAF TO MAP:** 3.76    **DIST FAF TO THLD:** 3.76
4. **MIN ALT:** RAP VORTAC 4500
8. **MSA FROM:** RAP VORTAC 360-180 5000, 180-360 8500

**EQUIPMENT REQUIREMENTS NOTES:**

**NOTES:**

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-32 ALL CATS VISIBILITY TO 1 SM.



ADDITIONAL FLIGHT DATA:

CHART MUDDY  
CHART ELLSWORTH AFB  
CHART CIRCLING ICON.  
RAP VORTAC TO RW32: 3.26/54.  
CHART RAP R-027 AT FARUT.  
CHART RAP R-275 AT ELIPE.  
CHART VDP AT 3.00 DME  
DISTANCE VDP TO THLD 0.76 NM  
CHART FAS OBST: 3190 TREE 440149N/1030319W.  
3360 AAO 435829N/1030112W.  
HOLD SE, RT, 322.00 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	HAT/HAA
S-32	3440	4000	280	3440	4000	280	3440	4000	280	3440	4000	280	3440	4000	280
CIRCLING	3660	1	456	3840	1	636	3860	1 3/4	656	3940	2 1/4	736	3960	2 3/4	756

CHANGES - REASONS

- INCORPORATED CHANGES FROM ORIG A-G - IAW FAAO 8260.19H, PARA 8-3-4C (2).
- ADDED FIX NAMES FOR ALL IAFS AND INTERMEDIATE DME FIXES - IAW FAAO 8260.19H, PARA 2-10-5 (A).
- INCREASED INITIAL SEGMENT ALTITUDE FROM FARUT (RAP R-027/7 DME) TO GEGLE (RAP R-142/7 DME) FROM 4700 TO 4800 - AIRSPACE EVALUATION RESULTED IN HIGHER TERRAIN.
- UPDATED MISSED APPROACH FROM CLIMB TO 5500 VIA RAP R-322 THEN LEFT TURN DIRECT RAP VORTAC AND HOLD.  
(TACAN AIRCRAFT CONTINUE VIA RAP R-142 TO MUDDY 5 DME AND HOLD SE, RT, 322 INBOUND) TO CLIMB TO 5500 ON RAP R-322 THEN LEFT TURN DIRECT RAP VORTAC AND HOLD. (TACAN AIRCRAFT CONTINUE ON RAP R-142 TO MUDDY/RAP 5.00 DME AND HOLD SE, RT, 321.98 INBOUND) - IAW 8260.19H, PARA 8-6-6 D (8).
- UPDATED PROCEDURE TURN COURSE FROM 141.77 TO 141.78 - CORRECTED ADMINISTRATIVE ERROR TO MATCH FINAL APPROACH COURSE.
- UPDATED FAS OBSTACLE FROM 3189 TERRAIN TO 3360 TREE - MAP STUDY AND UPDATED SURVEY.
- ADDED TO ADDITIONAL FLIGHT DATA TO CHART RAP R-027 AT FARUT AND RAP R-275 AT ELIPE - IAW FAAO 8260.19H, PARA 8-6-10 R.
- ADDED CHART VDP AT 3.00 DME, DISTANCE VDP TO THLD 0.76 NM - IAW FAAO 8260.3D, PARA 2-6-5.
- CHANGED CHART NOTE VGSI AND DESCENT ANGLES NOT COINCIDENT TO VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) - IAW FAAO 8260.19H, PARA 8-6-9 M (2).
- ADDED ALTERNATE MINIMUMS FOR CAT D 800-2 1/4 - IAW FAAO 8260.3D, PARA 3-1-2.
- CHANGED CHART NOTE FOR INOPERATIVE MALSR INCREASE S-32 VISIBILITY ALL CATS TO 1 TO FOR INOPERATIVE ALS, INCREASE S-32 ALL CATS VISIBILITY TO 1 SM - IAW FAAO 8260.19H, PARA 8-6-11 O (3) (D).
- REMOVED BACK-UP ALTIMETER SETTING NOTE - ASOS IS ON WMSCR, NOTES ADDED TO 8260-9 FOR CONTINGENCY USE.
- UPDATED CIRCLING MINIMUMS FOR CAT C FROM CMDA/HAA 3840/636 TO 3860/656, CAT D FROM 3840/636 TO 3940/736, VIS FROM 2 TO 2 1/4 SM - NEW CONTROLLING OBSTACLE AND MATCHES THE FLIGHT CHECKED PROCEDURE ILS OR LOC RWY 32.
- ADDED TO ADDITIONAL FLIGHT DATA 3360 AAO 435829N/1030112W - IAW FAAO 8260.19H, PARA 8-6-10 E.



**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**

**DATE**

**DEVELOPED BY**

FRANK JACKSON JR

*Digitally signed by*

**FRANK JACKSON**

*Digitally signed by*

**DONALD H LANIER**

Jul 15, 2019

**OFFICE**

AJV-A431

**DATE**

06/24/2019

**APPROVED BY**

GEORGE DAVIS

*Digitally signed by*

**DONALD H LANIER**

Jun 26, 2019

**OFFICE**

AJV-A430

**DATE**

**TITLE**

MANAGER

Jul 15, 2019

