

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR 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.

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AIRPORT ABERDEEN RGNL	AIRPORT ID KABR	PROCEDURE NAME VOR RWY 31	ORIGINAL/AMENDMENT 21A	CITY ABERDEEN	STATE SD
AIRPORT ELEVATION 1302	TDZE 1301	SUPERSEDED VOR RWY 31	ORIGINAL/AMENDMENT 21	DATED 10/22/2009	MAG VAR 7E
FACILITY ABR	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE 28 FEBRUARY 2019	REQUIRED EFFECTIVE DATE ROUTINE	CANCEL/SUSPEND	EPOCH YEAR 1985

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
OPLOW/9.00 DME CW	IAF	DMEJO/9.00 DME	NOPT				9.00 DME ARC (ABR LR-111)		3000
OPNAH/9.00 DME CCW	IAF	DMEJO/9.00 DME	NOPT				9.00 DME ARC (ABR LR-137)		3000
DMEJO/9.00 DME	IF	ABR VOR/DME					303.79	9.00	2100

MISSED APPROACH

MAP:

2.25 NM AFTER ABR VOR/DME OR AT ABR 2.25 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 THEN RIGHT TURN DIRECT ABR VOR/DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT L **SIDE OF COURSE** 123.79 **OUTBOUND** 3000 **FT WITHIN** 10 **MILES OF** ABR VOR/DME (IAF)
- 2.
3. **FAC:** 303.79 **FAF:** ABR VOR/DME **DIST FAF TO MAP:** 2.25 **DIST FAF TO THLD:** 2.25
4. **MIN ALT:** ABR VOR/DME 2100
8. **MSA FROM:** ABR VOR/DME 330-150 3400, 150-330 3000

EQUIPMENT REQUIREMENTS NOTES:

NOTES:

CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-31 CAT C VISIBILITY TO 1 SM.



ADDITIONAL FLIGHT DATA:
CHART CIRCLING ICON.
ABR VOR/DME TO RW31: 3.07/67.
CHART ABR R-031 AT OPLOW.
CHART ABR R-225 AT OPNAH.
CHART VDP AT 1.33 DME
DISTANCE VDP TO THLD 0.92 NM
CHART FAS OBST: 1329 TREE 452547N/0982360W.
HOLD SE, RT, 304.00 INBOUND

MINIMUMS:
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT
ALTERNATE: NA ☐ STANDARD - CAT D 900-2 3/4

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
S-31	1660	1/2	359	1660	1/2	359	1660	3/4	359	1660	1	359			
CIRCLING	1760	1	458	1860	1	558	1960	1 3/4	658	2160	2 3/4	858			

- CHANGES - REASONS**
1. ADDED CHART CIRCLING ICON IN ADDITIONAL FLIGHT DATA - IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-10T. THE RNAV (GPS) RWY 13 AT THE AIRPORT HAS A CIRCLING ICON PUBLISHED.
 2. AMENDED S-31 CAT C VISIBILITY FROM 1/2 TO 3/4 - COMPUTED IN ACCORDANCE WITH FAAO 8260.3C, TABLE 3-3-1.
 3. AMENDED CAT B CIRCLING MDA/HAA FROM 1760/458 TO 1860/558 - NEW CONTROLLING OBSTACLE IDENTIFIED IN LARGER CIRCLING AREA (MATCHES CAT B CIRCLING MINIMUMS ON THE RNAV (GPS) RWY 13).
 4. AMENDED CAT C CIRCLING MDA/HAA FROM 1760/458 TO 1960/658 AND VISIBILITY FROM 1 1/2 TO 1 3/4 - NEW CONTROLLING OBSTACLE IDENTIFIED IN LARGER CIRCLING AREA (MATCHES CAT C CIRCLING MINIMUMS ON THE RNAV (GPS) RWY 13).
 5. AMENDED CAT D CIRCLING MDA/HAA FROM 1860/558 TO 2160/858 AND VISIBILITY FROM 2 TO 2 3/4 - NEW CONTROLLING OBSTACLE IDENTIFIED IN LARGER CIRCLING AREA (MATCHES CAT D CIRCLING MINIMUMS ON THE RNAV (GPS) RWY 13).
 6. DELETED NOTE: FOR INOPERATIVE MALSR, INCREASE S-31 CAT D VISIBILITY TO 1 1/4 - REPLACED BY UPDATED NOTE.
 7. ADDED NOTE: FOR INOPERATIVE ALS, INCREASE S-31 CAT C VISIBILITY TO 1 SM - IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-11O(3)(D).
 8. DELETED NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WATERTOWN ALTIMETER SETTING AND INCREASE ALL MDA 220 FEET, INCREASE S-31 CAT C VISIBILITY 1/2 MILE, CAT D VISIBILITY 1/4 MILE, AND CIRCLING CATS C AND D 1/2 MILE - LOCAL ASOS IS ON WMSCR. BACK-UP ALTIMETER ADJUSTMENTS AND NOTES MOVED TO FAA FORM 8260-9 FOR CONTINGENCY USE DURING KABR ASOS OUTAGES.
 9. DELETED NOTE: VDP NA WHEN USING WATERTOWN ALTIMETER SETTING - LOCAL ASOS IS ON WMSCR. BACK-UP ALTIMETER ADJUSTMENTS AND NOTES MOVED TO FAA FORM 8260-9 FOR CONTINGENCY USE DURING KABR ASOS OUTAGES.
 10. DELETED ALTERNATE MINIMUMS RESTRICTION NA WHEN LOCAL WEATHER NOT AVAILABLE - NO LONGER REQUIRED, LOCAL ASOS IS ON WMSCR.
 11. AMENDED CAT D ALTERNATE MINIMUMS FROM STANDARD TO 900-2 3/4 - COMPUTED USING HIGHER CAT D CIRCLING MINIMUMS.
 12. AMENDED MSA SECTOR 330 CW 150 MINIMUM ALTITUDE FROM 4100 TO 3400 - NEW OBSTACLE STUDY.

COORDINATED WITH:
A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZMP, AMGR

FLIGHT CHECKED BY
FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, DEC 22, 2017.

DEVELOPED BY
PETER R. GUIMOND
Digitally signed by PETER R GUIMOND Aug 10, 2018

APPROVED BY
JULIE MORGAN

OFFICE
DATE
Digitally signed by ROBERT G HAMILTON Sep 06, 2018

OFFICE
AJV-5422
DATE
08/10/2018

OFFICE
AJV-5420
DATE
Digitally signed by ROBERT G HAMILTON Sep 06, 2018
TITLE
MANAGER

