

**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.

<u>AIRPORT ID</u> ABR	<u>PROCEDURE NAME</u> VOR RWY 31	<u>ORIGINAL/AMENDMENT</u> 21C	<u>CITY</u> ABERDEEN	<u>STATE</u> SD
<u>AIRPORT ELEVATION</u> 1302	<u>TDZE</u> 1301	<u>SUPERSEDED</u> VOR RWY 31	<u>DATED</u> 12/02/2021	<u>MAG VAR</u> 7E
<u>FACILITY</u> ABR	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 1985
				<u>CANCEL/SUSPEND</u>

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
OPLOW/9.00 DME CW	IAF	DMEJO/9.00 DME	NOPT				9.00 DME ARC (ABR VOR/DME LR-111)		3000
OPNAH/9.00 DME CCW	IAF	DMEJO/9.00 DME	NOPT				9.00 DME ARC (ABR VOR/DME 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:

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

NOTES:

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY.

ADDITIONAL FLIGHT DATA:

HOLD SE, RT, 304.00 INBOUND.
FAS OBST: 1406 TREE 452557N/0982236W.
CHART VDP AT 1.33 DME.
DISTANCE VDP TO THLD 0.92 NM.
CHART ABR R-031 AT OPLOW.
CHART ABR R-225 AT OPNAH.
ABR VOR/DME TO RW31: 3.07/67.



MINIMUMS:

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

ALTERNATE: NA STANDARD - 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-31	1660	1	359	1660	1	359	1660	1	359		NA				
CIRCLING	1760	1	458	1860	1	558	1980	2	678		NA				

CHANGES - REASONS

1. INCORPORATED CHANGES FROM P-NOTAM AMDT 21B INTO THIS FORM – IAW 8260.19K 8-3-4 C(3).
2. NOTES: REMOVED "CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-31 CAT C VISIBILITY TO 1 SM" AND ADDED "INOPERATIVE TABLE DOES NOT APPLY" - IAW 8260.19K 8-6-12 O(3)(B).
3. ADDITIONAL FLIGHT DATA: CHANGED FAS OBST FROM "CHART FAS OBST: 1329 TREE 452547N/0982360W" TO "FAS OBST: 1406 TREE 452257N/0982236W" - NEW OBSTACLE EVALUATION; PLANTED TREES NO LONGER REQUIRED TO BE CHARTED PER AFS.
4. ALTERNATE MINIMUMS: CHANGED FROM "STANDARD - CAT D 900-2 3/4" TO "STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE" - IAW 8260.19K 8-6-12 B(4).
5. MINIMUMS: RAISED S-31 VISIBILITIES CATS A/B FROM 1/2 TO 1 AND CAT C FROM 3/4 TO 1 - IAW 8260.3G TABLE 3-3-1.
6. MINIMUMS: RAISED CIRCLING CAT C CMDA/HAA FROM 1960/658 TO 1980/678 AND VISIBILITY FROM 1 3/4 TO 2 - INCORPORATED NOTAM FDC: 5/7556, NEW TOWER AFFECTS CIRCLING CAT C MINIMUMS; VISIBILITY IAW 8260.3G TABLE 3-3-1.

COORDINATED WITH:

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

FLIGHT CHECKED BY

PAUL A GOSDEN

Digitally signed by
CASIMIR L TABAKA
Feb 18, 2026

OFFICE

AJF

DATE

02/17/2026

DEVELOPED BY

CASIMIR L. TABAKA (HOPE N. DENTON)

Digitally signed by
CASIMIR L TABAKA
Feb 18, 2026

OFFICE

AJV-A432

DATE

12/22/2025

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by
CASIMIR L TABAKA
Feb 18, 2026

OFFICE

AJV-A432

DATE

TITLE
MANAGER



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD**

<u>AIRPORT ID</u> ABR	<u>PROCEDURE NAME</u> VOR RWY 31	<u>AMDT NO.</u> 21C	<u>CITY</u> ABERDEEN	<u>STATE</u> SD	<u>AIRPORT ELEVATION</u> 1302	<u>FACILITY</u> ABR
--------------------------	-------------------------------------	------------------------	-------------------------	--------------------	----------------------------------	------------------------

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL: ARC

<u>FROM</u> OPLOW/9.00 DME CW	<u>TO</u> DMEJO/9.00 DME
----------------------------------	-----------------------------

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
------------	-----------------	------------	------------	------------	-------------

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (46-000795)	452649.70N/0980534.00W	1563	250	50	4D	1000				AT437	3000
TERRAIN	452730.00N/0981009.00W	1335 (1300)								AS1500	2800

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
------------	-------------	-------------	------------	-------------	-----------	-----------	------------	----------------------	-------------	----------------	-------------------------------

SEGMENT REMARKS:

INITIAL: ARC

<u>FROM</u> OPNAH/9.00 DME CCW	<u>TO</u> DMEJO/9.00 DME
-----------------------------------	-----------------------------

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
------------	-----------------	------------	------------	------------	-------------

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	451742.00N/0983712.00W	1546	215	8	4B	1000				AT454	3000
TERRAIN	451700.00N/0983636.00W	1332 (1300)								AS1500	2800

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
------------	-------------	-------------	------------	-------------	-----------	-----------	------------	----------------------	-------------	----------------	-------------------------------

SEGMENT REMARKS:



AIRPORT ID
ABR

PROCEDURE NAME
VOR RWY 31

AMDT NO.
21C

CITY
ABERDEEN

STATE
SD

AIRPORT ELEVATION
1302

FACILITY
ABR

FINAL

FROM
ABR VOR/DME

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

<u>RNP</u>	<u>DISTANCE</u> 2.25	<u>PAT</u>	<u>MAP</u> 2.25 NM AFTER ABR VOR/DME OR AT ABR 2.25 DME	<u>HAT</u> 359	<u>HMAS</u>
------------	-------------------------	------------	--	-------------------	-------------

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TREE	452557.00N/0982236.00W	1406	215	8	4B	250					1660

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
------------	-------------	-------------	------------	-------------	-----------	-----------	------------	----------------------	-------------	----------------	-------------------------------

SEGMENT REMARKS:

PROCEDURE TURN

FROM
ABR VOR/DME

TO
10 NM

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
------------	-----------------	------------	------------	------------	-------------

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	451742.00N/0975848.00W	1651	215	8	4B	1000					2700
TERRAIN	451742.00N/0975848.00W	1450 (1500)								AS1500	3000

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
------------	-------------	-------------	------------	-------------	-----------	-----------	------------	----------------------	-------------	----------------	-------------------------------

SEGMENT REMARKS:



AIRPORT ID
ABR

PROCEDURE NAME
VOR RWY 31

AMDT NO.
21C

CITY
ABERDEEN

STATE
SD

AIRPORT ELEVATION
1302

FACILITY
ABR

MISSED APPROACH

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

TO
ABR VOR/DME

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
1410

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
TOWER (46-000005)	452528.00N/0983104.00W	1802	500	50	5D	1000					2900
TERRAIN	452824.00N/0983733.00W	1456 (1500)								AS1500	3000

COMPUTATIONS

ALT **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

SEGMENT REMARKS:

CIRCLING ALL CATS CAT A CAT B CAT C CAT D CAT E NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TOWER (46-000365)	452737.00N/0982721.00W	1.31	458	1459	50	10	2B	300			1760
CATEGORY B											
ELEVATOR (46-000372)	452757.00N/0982302.00W	1.85	558	1501	500	50	5D	300		AC50	1860
CATEGORY C											
TOWER	452422.88N/0982710.53W	2.91	678	1623	250	50	4D	300		AC50	1980

CIRCLING REMARKS:

MSA

CENTER **RADIUS**
ABR VOR/DME 25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
150-330	TOWER (46-020164)	452712.87N/0984811.37W	270	18.5	1949	500	50	5D	1000			3000
330-150	WINDMILL (46-041210)	450737.31N/0974923.20W	120	28.9	2356	250	50	4D	1000			3400

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

QUALITY
39
CHECKED

AIRPORT ID
ABR

PROCEDURE NAME
VOR RWY 31

AMDT NO.
21C

CITY
ABERDEEN

STATE
SD

AIRPORT ELEVATION
1302

FACILITY
ABR

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZMP ARTCC, HON FSS

WX SERVICE
ASOS

LOCATION
ABR

HRS OPERATION
24

ALTIMETER SOURCE
ABR

DISTANCE

WMSCR
Y

ADJUSTMENTS
0

BACK-UP WX SERVICE
ASOS

LOCATION
ATY

HRS OPERATION
24

ALTIMETER SOURCE
ATY

DISTANCE
62.51

WMSCR
Y

ADJUSTMENTS
207

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
ABR 1302, ATY 1749
RA = 207.

PRIMARY NAVAID
ABR VOR/DME

MONITOR POINT
MOCC

HRS OPERATION
24

CAT
1

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW13 - REIL (PCL), HIRL (PCL), PAPI-4L (PCL)	PIR-G	
RW17 - MIRL (PCL), REIL (PCL), PAPI-4R (PCL)	PIR-G	
RW31 - MALSR (PCL), HIRL (PCL), PAPI-4L (PCL)	PIR-G	
RW35 - MIRL (PCL), REIL (PCL), PAPI-4L (PCL)	PIR-G	

GLIDESLOPE ANGLE

ELEV RWY THRESHOLD

TCH

ELEV GS ANTENNA

DISTANCE FROM RWY

VGSI ANGLE
3.00

TCH
66.5

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD
ON CENTERLINE

FT FROM THRESHOLD
FT FROM CENTERLINE

DISPLACED THRESHOLD DISTANCE

CRITICAL TEMPERATURES

CRITICAL LOW

CRITICAL HIGH

ACT

APT ISA

CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS



HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

100 FT VEGETATION HEIGHT PER FPT.

MANUAL TERRAIN EVALUATION COMPLETED IN INTERMEDIATE SEGMENT, DTED EVALUATION CAUSED EXCESSIVE ALTITUDE ADJUSTMENT AT FAF.

FOR CONTINGENCY PURPOSES:

- WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ATY ALTIMETER SETTING AND INCREASE ALL MDAS 220 FEET AND S-31 VISIBILITY CAT C 1/4 SM, AND CIRCLING VISIBILITY CAT C 3/4 SM.
-VDP NA WHEN USING ATY ALTIMETER SETTING.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	FAF	TO 1000FT POINT	7.00
WIDTH OF	INTERMEDIATE	SEGMENT AT 1000FT POINT	4.80
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1000FT POINT	310.79
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1000FT POINT	1300
DISTANCE FROM	FACILITY	TO 1500FT POINT	7.00
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.80
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	310.79
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	1300

THRESHOLD COORDINATES (IF STR-IN)	452630.63N/0982432.57W
ARP COORDINATES	452648.47N/0982520.79W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 31 DISTANCE 0.64 NM
FAF COORDINATES	452502.48N/0982207.39W
FIX NAME COORDINATES	IF DMEJO 451909.36N/0981227.98W

REMARKS

1000 FT POINT IS ASSUMED TO BE 7 NM OUTBOUND BEYOND THE FAF (ABR VOR/DME).
1500 FT POINT IS ASSUMED TO BE 7 NM FROM ABR VOR/DME ON THE INBOUND LEG.

PART E: PREPARED BY

NAME
CASIMIR L. TABAKA (HOPE N. DENTON)

OFFICE
AJV-A432

DATE
12/22/2025

TITLE
AERONAUTICAL INFORMATION SPECIALIST

