

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33**

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 ID ABR | PROCEDURE NAME RNAV (GPS) RWY 31 | ORIGINAL/AMENDMENT ORIG-D | CITY ABERDEEN | STATE SD |
| AIRPORT ELEVATION 1302 | TDZE 1301 | SUPERSEDED RNAV (GPS) RWY 31 | DATED 01/25/2024 | MAG VAR 7E |
| FACILITY RNAV | COORDINATES OF FACILITIES | ACTUAL EFFECTIVE DATE | REQUIRED EFFECTIVE DATE ROUTINE | EPOCH YEAR 2000 |
| | | | CANCEL/SUSPEND | |

TERMINAL ROUTES

| FROM | FIX TYPE | TO | FIX TYPE | LEG TYPE | FO/FB | RNP | COURSE | DISTANCE | ALTITUDE |
|-----------------------|----------|-----------------------|----------|----------|-------|------|--------|----------|----------|
| ABR VOR/DME | | DOXCU | | TF | FO | 1.00 | 129.18 | 8.96 | 3000 |
| EFJAM | IAF | DOXCU | NOPT | TF | FB | 1.00 | 038.11 | 8.03 | 3000 |
| FIBDA | IAF | DOXCU | NOPT | TF | FB | 1.00 | 253.26 | 5.14 | 3000 |
| DOXCU | IF/IAF | CISOD | | TF | FB | 1.00 | 308.20 | 6.10 | 3000 |
| CISOD | FAF | ATPIC/2.60 NM TO RW31 | | TF | FB | 0.30 | 308.13 | 2.50 | |
| ATPIC/2.60 NM TO RW31 | | RW31 | MAP | TF | FO | 0.30 | 308.13 | 2.60 | |
| RW31 | MAP | 1501 MSL | | CA | | | 308.13 | | |
| 1501 MSL | | HATHR | | DF | FO | 1.00 | | | 3000 |

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW31

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT HATHR AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**
- HOLD SE DOXCU, RT, 308.20 INBOUND, 3000 IN LIEU OF PT (IAF), MAX 6000.
- FAC:** 308.13 **FAF:** CISOD **DIST FAF TO MAP:** 5.10 **DIST FAF TO THLD:** 5.10
- MIN ALT:** DOXCU 3000, CISOD 3000, ATPIC/2.60 NM TO RW31 2180
- DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **200 HAT:** 0.46 **GS ANT:**
- MIN GP INCPT:** 3000 **GP ALT AT PFAF:** CISOD 3000 **OM:** **MM:** **IM:**
- GP ANGLE:** 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 52.0
- MSA FROM:** RW31 3400



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ABR VOR/DME ON V170 NORTH WESTBOUND.
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 127.91 INBOUND.
 FAS OBST: 1406 TREE 452509N/0982345W.
 CHART VDP AT 0.92 NM TO RW31.
 WAAS CHANNEL # 42914
 REFERENCE PATH ID: W31A
 LTP HAE: 372 M

MINIMUMS:

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

ALTERNATE: NA STANDARD - CAT D 900-2 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 |
| LPV DA | 1501 | 1 | 200 | 1501 | 1 | 200 | 1501 | 1 | 200 | 1501 | 1 | 200 | | | |
| LNAV/VNAV DA | 1599 | 1 | 298 | 1599 | 1 | 298 | 1599 | 1 | 298 | 1599 | 1 | 298 | | | |
| LNAV MDA | 1660 | 1 | 359 | 1660 | 1 | 359 | 1660 | 1 | 359 | 1660 | 1 | 359 | | | |
| CIRCLING | 1760 | 1 | 458 | 1860 | 1 | 558 | 1980 | 2 | 678 | 2160 | 2 3/4 | 858 | | | |

CHANGES - REASONS

1. PROFILE LINE 5: 200 HAT CHANGED FROM 0.47 TO 0.46 - DISTANCE ROUNDING UPDATED FROM 0.47 TO 0.46 (0.4645) 200 HAT TO THLD.
2. NOTES: REMOVED "CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV VISIBILITY ALL CATS TO 7/8 SM AND LNAV VISIBILITY CATS C/D TO 1 SM" - NO LONGER APPLICABLE IAW 8260.3G TABLE 3-3-1.
3. ADDITIONAL FLIGHT DATA: FAS OBST CHANGED FROM "1396 TREE (46-042834) 452547N/0982409W" TO "1406 TREE 452509N/0982345W" - NEW OBSTACLE EVALUATION.
4. ADDITIONAL FLIGHT DATA: REMOVED "CHART CIRCLING ICON" - NO LONGER REQUIRED IAW MEMO 279.
5. ALTERNATE MINIMUMS: ADDED "NA WHEN LOCAL WEATHER NOT AVAILABLE" - IAW 8260.19K 8-6-12 B(4).
6. MINIMUMS: RAISED LPV AND LNAV/VNAV VISIBILITIES ALL CATS FROM 1/2 TO 1 - IAW 8260.3G TABLE 3-3-1.
7. MINIMUMS: RAISED LNAV VISIBILITIES CATS A/B FROM 1/2 TO 1 AND CATS C/D FROM 5/8 TO 1 - IAW 8260.3G TABLE 3-3-1.
8. 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.
9. FAS DATA BLOCK INFORMATION: CRC REMAINDER CHANGED FROM "E31E345E" TO "82F0F143" - FPAP COORDINATES CHANGED FROM "452733.6850N/0982601.9645W" TO "452733.6800N/0982601.9715W".



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

12/23/2025

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by
CASIMIR L TABAKA
Feb 18, 2026

OFFICE

AJV-A432

DATE

TITLE
MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD

OPERATION TYPE
SBAS SERVICE PROVIDER IDENTIFIER
AIRPORT IDENTIFIER
RUNWAY
APPROACH PERFORMANCE DESIGNATOR
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR
REFERENCE PATH IDENTIFIER (APPROACH ID)
LTP/FTP LATITUDE
LTP/FTP LONGITUDE
LTP/FTP ELLIPSOIDAL HEIGHT
FPAP LATITUDE
FPAP LONGITUDE
THRESHOLD CROSSING HEIGHT (TCH)
TCH UNITS SELECTOR (METERS OR FEET USED)
GLIDEPATH ANGLE (GPA)
COURSE WIDTH AT THRESHOLD
LENGTH OFFSET
HORIZONTAL ALERT LIMIT (HAL)
VERTICAL ALERT LIMIT (VAL)

DATA

0
0
KABR
RW31
0
0
W31A
452630.6265N
0982432.5650W
+03720
452733.6800N
0982601.9715W
00052.0
F
03.00
106.75
0648
40.0
35.0

CRC REMAINDER

82F0F143

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE
LTP ORTHOMETRIC HEIGHT
FPAP ORTHOMETRIC HEIGHT

K3
+03965
+03965



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

| | | | | | | |
|--------------------------|--|---------------------------|-------------------------|--------------------|----------------------------------|-------------------------|
| <u>AIRPORT ID</u> ABR | <u>PROCEDURE NAME</u> RNAV (GPS) RWY 31 | <u>AMDT NO.</u> ORIG-D | <u>CITY</u> ABERDEEN | <u>STATE</u> SD | <u>AIRPORT ELEVATION</u> 1302 | <u>FACILITY</u> RNAV |
|--------------------------|--|---------------------------|-------------------------|--------------------|----------------------------------|-------------------------|

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

| | |
|----------------------------|--------------------|
| <u>FROM</u> ABR VOR/DME | <u>TO</u> DOXCU |
|----------------------------|--------------------|

| | | | | | |
|--------------------|-------------------------|------------|------------|------------|-------------|
| <u>RNP</u> 1.00 | <u>DISTANCE</u> 8.96 | <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 | 452133.00N/0981757.00W | 1506 | 215 | 8 | 4B | 1000 | | | | AT494 | 3000 |
| TERRAIN | 452130.00N/0981800.00W | 1305 (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

| | |
|----------------------|--------------------|
| <u>FROM</u> EFJAM | <u>TO</u> DOXCU |
|----------------------|--------------------|

| | | | | | |
|--------------------|-------------------------|------------|------------|------------|-------------|
| <u>RNP</u> 1.00 | <u>DISTANCE</u> 8.03 | <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 | 451606.00N/0981627.00W | 1506 | 215 | 8 | 4B | 1000 | | | | AT494 | 3000 |
| TERRAIN | 451130.00N/0981924.00W | 1305 (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
RNAV (GPS) RWY 31

AMDT NO.
ORIG-D

CITY
ABERDEEN

STATE
SD

AIRPORT ELEVATION
1302

FACILITY
RNAV

INITIAL

FROM
FIBDA

TO
DOXCU

RNP
1.00

DISTANCE
5.14

PAT

MAP

HAT

HMAS

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|--------------------|------------------------|-----------------|-------------|-------------|-----------|------------|------------|-----------|-------------|--------------------|----------------|
| AAO | 451818.00N/0980427.00W | 1523 | 215 | 8 | 4B | 1000 | | | | AT477 | 3000 |
| TERRAIN | 451745.00N/0980615.00W | 1309 (1300) | | | | | | | | AS1500 | 2800 |

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM
DOXCU (IF/IAF)

TO
CISOD

RNP
1.00

DISTANCE
6.10

PAT

MAP

HAT

HMAS

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|--------------------|------------------------|-----------------|-------------|-------------|-----------|------------|------------|-----------|-------------|--------------------|----------------|
| AAO | 452133.00N/0981757.00W | 1506 | 215 | 8 | 4B | 500 | | | | AT994 | 3000 |
| TERRAIN | 451845.00N/0981906.00W | 1305 (1300) | | | | | | | | AS1500 | 2800 |

COMPUTATIONS

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

SEGMENT REMARKS:



AIRPORT ID
ABR

PROCEDURE NAME
RNAV (GPS) RWY 31

AMDT NO.
ORIG-D

CITY
ABERDEEN

STATE
SD

AIRPORT ELEVATION
1302

FACILITY
RNAV

FINAL: LPV

FROM CISOD **TO** RW31

RNP 0.30 **DISTANCE** 5.10 **PAT** **MAP** DA **HAT** 200 **HMAS**

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|-------------|-------------|----------|------|------|----|-----|-----|----|------|-------------|---------|
| | | | | | | | ASC | | | | 1501 |

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM CISOD **TO** RW31

RNP 0.30 **DISTANCE** 5.10 **PAT** **MAP** DA **HAT** 298 **HMAS**

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|------------------|------------------------|----------|------|------|----|-----|-----|----|------|-------------|---------|
| TREE (46-042834) | 452546.99N/0982408.89W | 1396 | 20 | 3 | 1A | 161 | | | | DG42 | 1599 |

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV

FROM CISOD **TO** ATPIC/2.60 NM TO RW31

RNP 0.30 **DISTANCE** 2.50 **PAT** **MAP** **HAT** **HMAS**

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|-------------|------------------------|----------|------|------|----|-----|-----|----|------|-------------|--------------------|
| AAO | 452303.00N/0981939.00W | 1503 | 215 | 8 | 4B | 250 | | | | RA220 DG207 | 2180 ³⁹ |

QUALITY
CHECKED

COMPUTATIONS

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

SEGMENT REMARKS:

AIRPORT ID
ABR

PROCEDURE NAME
RNAV (GPS) RWY 31

AMDT NO.
ORIG-D

CITY
ABERDEEN

STATE
SD

AIRPORT ELEVATION
1302

FACILITY
RNAV

FINAL: LNAV STEPDOWN

FROM
ATPIC/2.60 NM TO RW31

TO
RW31

RNP
0.30

DISTANCE
2.60

PAT

MAP
RW31

HAT
359

HMAS

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|--------------------|------------------------|-----------------|-------------|-------------|-----------|------------|------------|-----------|-------------|--------------------|----------------|
| TREE | 452509.00N/0982345.00W | 1406 | 215 | 8 | 4B | 250 | | | | | 1660 |

COMPUTATIONS

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

SEGMENT REMARKS:

HOLD-IN-LIEU OF PT

FROM
DOXCU

TO
P-5

RNP

DISTANCE

PAT
P-5

MAP

HAT

HMAS

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|--------------------|------------------------|-----------------|-------------|-------------|-----------|------------|------------|-----------|-------------|--------------------|----------------|
| AAO | 451615.00N/0980033.00W | 1621 | 215 | 8 | 4B | 1000 | | | | AT379 | 3000 |
| TERRAIN | 451615.00N/0980033.00W | 1420 (1400) | | | | | | | | AS1500 | 2900 |

COMPUTATIONS

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

SEGMENT REMARKS:



AIRPORT ID
ABR

PROCEDURE NAME
RNAV (GPS) RWY 31

AMDT NO.
ORIG-D

CITY
ABERDEEN

STATE
SD

AIRPORT ELEVATION
1302

FACILITY
RNAV

MISSED APPROACH: LPV

FROM
DA **TO**
HATHR

RNP 0.30 **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
1335

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|-------------|------------------------|-------------|------|------|----|------|-----|----|------|-------------|---------|
| | | | | | | | ASC | | | | 3000 |
| AAO | 453421.00N/0983942.00W | 1641 | 215 | 8 | 4B | 1000 | | | | | 2700 |
| TERRAIN | 453351.00N/0983851.00W | 1417 (1400) | | | | | | | | AS1500 | 2900 |

COMPUTATIONS

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

SEGMENT REMARKS:

MISSED APPROACH: LNAV/VNAV

FROM
DA **TO**
HATHR

RNP 0.30 **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
1438

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|-------------|------------------------|-------------|------|------|----|------|-----|----|------|-------------|---------|
| | | | | | | | ASC | | | | 3000 |
| AAO | 453421.00N/0983942.00W | 1641 | 215 | 8 | 4B | 1000 | | | | | 2700 |
| TERRAIN | 453351.00N/0983851.00W | 1417 (1400) | | | | | | | | AS1500 | 2900 |

COMPUTATIONS

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

SEGMENT REMARKS:



AIRPORT ID
ABR

PROCEDURE NAME
RNAV (GPS) RWY 31

AMDT NO.
ORIG-D

CITY
ABERDEEN

STATE
SD

AIRPORT ELEVATION
1302

FACILITY
RNAV

MISSED APPROACH: LNAV

FROM
RW31 **TO**
HATHR

RNP
0.30-1.00

DISTANCE

PAT

MAP

HAT

HMAS
1560

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|-------------|------------------------|-------------|------|------|----|------|-----|----|------|-------------|---------|
| | | | | | | | ASC | | | | 3000 |
| AAO | 453421.00N/0983942.00W | 1641 | 215 | 8 | 4B | 1000 | | | | | 2700 |
| TERRAIN | 453351.00N/0983851.00W | 1417 (1400) | | | | | | | | AS1500 | 2900 |

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 |
| CATEGORY D | | | | | | | | | | | |
| TOWER (46-000426) | 452757.00N/0982013.00W | 3.81 | 858 | 1801 | 500 | 50 | 5D | 300 | | AC50 | 2160 |

CIRCLING REMARKS:

MSA

CENTER RW31 **RADIUS**
25



| SECTOR | OBSTRUCTION | COORDINATES | BEARING | DISTANCE | ELEV MSL | HORZ | VERT | AC | ROC | OCS | ADJUSTMENTS | MIN ALT |
|---------|----------------------|------------------------|---------|----------|----------|------|------|----|------|-----|-------------|---------|
| 360-360 | WINDMILL (46-020426) | 451243.97N/0975438.86W | 116 | 25.2 | 2316 | 250 | 50 | 4D | 1000 | | | 3400 |

MSA REMARKS:

AIRPORT ID
ABR

PROCEDURE NAME
RNAV (GPS) RWY 31

AMDT NO.
ORIG-D

CITY
ABERDEEN

STATE
SD

AIRPORT ELEVATION
1302

FACILITY
RNAV

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

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 = 206.6.

PRIMARY NAVAID

MONITOR POINT

HRS OPERATION

CAT

| APPROACH AND RUNWAY LIGHTING SYSTEM | RUNWAY MARKINGS | RUNWAY VISUAL RANGE |
|---|------------------------|----------------------------|
| RW13 - HIRL (PCL), REIL (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

3.00

ELEV RWY THRESHOLD

1300.9

TCH

52.0

ELEV GS ANTENNA

DISTANCE FROM RWY

VGSI ANGLE

3.00

TCH

66.5

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD

FT FROM THRESHOLD

DISPLACED THRESHOLD DISTANCE

ON CENTERLINE

FT FROM CENTERLINE

CRITICAL TEMPERATURES

CRITICAL LOW

-17C

CRITICAL HIGH

+54C

ACT

-17C

APT ISA

+12.42C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 972 HIGH TEMP 1283.

"VISUAL PORTION OF FINAL" PENETRATIONS



AIRPORT ID
ABR

PROCEDURE NAME
RNAV (GPS) RWY 31

AMDT NO.
ORIG-D

CITY
ABERDEEN

STATE
SD

AIRPORT ELEVATION
1302

FACILITY
RNAV

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 USED PER FPT.

FOR CONTINGENCY PURPOSES:

- WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ATY ALTIMETER SETTING AND INCREASE LPV DA TO 1708 FEET; INCREASE LNAV/VNAV DA TO 1806 FEET; INCREASE ALL MDAS 220 FEET AND LNAV VISIBILITY CAT C/D 1/4 SM, AND CIRCLING VISIBILITY CAT C/D 3/4 SM.
 - BARO-VNAV AND 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 | THLD | TO 1000FT POINT | 2.97 |
| WIDTH OF | FINAL | SEGMENT AT 1000FT POINT | 1.20 |
| TRUE COURSE OF | FINAL | SEGMENT CONTAINING 1000FT POINT | 315.13 |
| HIGH TERRAIN IN | FINAL | SEGMENT CONTAINING 1000FT POINT | 1300 |
| DISTANCE FROM | THLD | TO 1500FT POINT | 4.70 |
| WIDTH OF | FINAL | SEGMENT AT 1500FT POINT | 1.76 |
| TRUE COURSE OF | FINAL | SEGMENT CONTAINING 1500FT POINT | 315.13 |
| HIGH TERRAIN IN | FINAL | 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 452253.92N/0981925.97W
FIX NAME COORDINATES

REMARKS

PART E: PREPARED BY

NAME
CASIMIR L. TABAKA (HOPE N. DENTON)

OFFICE
AJV-A432

DATE
12/23/2025

TITLE
AERONAUTICAL INFORMATION SPECIALIST

