

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
ILS STANDARD INSTRUMENT APPROACH PROCEDURE**

**TITLE 14 CFR PART 97.29**

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> ABERDEEN RGNL	<u>AIRPORT ID</u> KABR	<u>PROCEDURE NAME</u> ILS OR LOC RWY 31	<u>ORIGINAL/AMENDMENT</u> 13A	<u>CITY</u> ABERDEEN	<u>STATE</u> SD
<u>AIRPORT ELEVATION</u> 1302	<u>TDZE</u> 1301	<u>SUPERSEDED</u> ILS RWY 31	<u>ORIGINAL/AMENDMENT</u> 13	<u>DATED</u> 01/28/1999	<u>MAG VAR</u> 7E
<u>FACILITY</u> I-ABR	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 28 FEBRUARY 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2000

**TERMINAL ROUTES** THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 19-03.

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ABR VOR/DME		RENEY LOM/I-ABR 6.13 DME					130.80	2.53	3000
OPLOW/ABR VOR/DME 9.00 DME CW	IAF	JUSEN/I-ABR 12.58 DME	NOPT				9.00 DME ARC (ABR LR-116)		3000
OPNAH/ABR VOR/DME 9.00 DME CCW ←	IAF	JUSEN/I-ABR 12.58 DME	NOPT				9.00 DME ARC (ABR LR-142)		3000
JUSEN/I-ABR 12.58 DME	IF	RENEY LOM/I-ABR 6.13 DME					308.07	6.45	3000

**MISSED APPROACH**

**MAP:**

ILS: DA  
LOC: 4.77 NM AFTER RENNEY LOM/I-ABR 6.13 DME OR AT I-ABR 1.36 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3000 THEN RIGHT TURN DIRECT RENNEY LOM/I-ABR 6.13 DME AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):**

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

**PROFILE:**

- PT L SIDE OF COURSE 128.07 OUTBOUND 3000 FT WITHIN 10 MILES OF RENNEY LOM (IAF)
- 
- FAC: 308.07 FAF: RENNEY LOM/I-ABR 6.13 DME DIST FAF TO MAP: 4.77 DIST FAF TO THLD: 4.77
- MIN ALT: RENNEY LOM/I-ABR 6.13 DME 3000
- DIST TO THLD FROM OM: 4.77 MM: IM: 150 HAT: GS ANT: 1245
- MIN GS INCPT: 3000 GS ALT AT FAF: OM: 2908 MM: IM:
- GP ANGLE: 3.00 34:1 20:1 TCH: 64.4
- MSA FROM: AB LOM 330-150 4000, 150-330 3000



**EQUIPMENT REQUIREMENTS NOTES:**

ADF REQUIRED.

**NOTES:**

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON ABR VOR/DME AIRWAY RADIALS 094 CW 171.  
 CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 31 CATS C/D VISIBILITY TO 1 SM.  
 CHART PROFILE NOTE: USE I-ABR DME WHEN ON LOC COURSE.

**ADDITIONAL FLIGHT DATA:**

CHART IN PLANVIEW: ABR VOR/DME 9.00 DME AT JUSEN.  
 CHART CIRCLING ICON.  
 CHART ABR R-031 AT OPLOW.  
 CHART ABR R-225 AT OPNAH.  
 CHART VDP AT 2.27 DME\*  
 DISTANCE VDP TO THLD 0.92 NM  
 \* LOC ONLY  
 CHART FAS OBST: 1404 TREE 452346N/0982050W.  
 CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SE ABR VOR/DME, RT, 304.00 INBOUND.  
 HOLD SE, RT, 308.07 INBOUND

**MINIMUMS:**

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

**ALTERNATE:** NA  ILS: STANDARD; LOC: STANDARD - CAT D 900-2 3/4

<b><u>CATEGORY:</u></b>	<b>A</b>			<b>B</b>			<b>C</b>			<b>D</b>			<b>E</b>		
	<b><u>FINAL TYPE</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>	<b><u>HAT/HAA</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>	<b><u>HAT/HAA</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>	<b><u>HAT/HAA</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>	<b><u>HAT/HAA</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>
S-ILS 31	1501	1/2	200	1501	1/2	200	1501	1/2	200	1501	1/2	200			
S-LOC 31	1660	1/2	359	1660	1/2	359	1660	5/8	359	1660	3/4	359			
CIRCLING	1760	1	458	1860	1	558	1960	1 3/4	658	2160	2 3/4	858			



**CHANGES - REASONS**

1. CHANGED PROCEDURE NAME FROM ILS RWY 31 TO ILS OR LOC RWY 31 - IN ACCORDANCE WITH FAAO 8260.3C, PARA 1-6-2.
2. AMENDED TDZE FROM 1300 TO 1301 AND APT ELEV FROM 1301 TO 1302 - MATCH CURRENT AIRNAV VALUES.
3. AMENDED ALL INSTANCES OF RENEY LOM/I-ABR 6.15 DME TO RENEY LOM/I-ABR 6.13 DME - COMPUTED USING CURRENT AIRNAV COORDINATES FROM I-ABR DME.
4. AMENDED ABR VOR/DME TO RENEY LOM SEGMENT DISTANCE FROM 2.55 TO 2.53 - COMPUTED USING CURRENT AIRNAV COORDINATES FOR RENEY LOM.
5. ADDED NAME OPNAH AT IAF ON ABR R-225 - IN ACCORDANCE WITH FAAO 8260.19H, PARA 2-10-5.
6. ADDED NAME OPLow AT IAF ON ABR R-031 - IN ACCORDANCE WITH FAAO 8260.19H, PARA 2-10-5.
7. AMENDED OPNAH ARC INITIAL LEAD RADIAL FROM ABR R-145 TO ABR R-142 - COMPUTED TO PROVIDE A MINIMUM OF 2 NM OF LEAD.
8. AMENDED OPLow ARC INITIAL LEAD RADIAL FROM ABR R-115 TO ABR R-116 - COMPUTED TO PROVIDE A MINIMUM OF 2 NM OF LEAD.
9. ADDED NAME JUSEN TO THE IF AND AMENDED ALL INSTANCES OF I-ABR 12.60 TO I-ABR 12.58 AT THE IF AND ADDED ABR VOR/DME 9.00 DME IN ADDITIONAL FLIGHT DATA - NAMED IN ACCORDANCE WITH IN ACCORDANCE WITH FAAO 8260.19H, PARA 2-10-5. DME COMPUTED USING CURRENT AIRAV COORDINATES FOR I-ABR DME. ABR 9.00 DME ADDED TO ASSIST AIRCRAFT IN FINDING JUSEN WHEN ARRIVING ON ARC INITIALS.
10. AMENDED MISSED APPROACH POINT FROM 4.79 NM AFTER RENEY LOM OR AT I-ABR 1.38 DME TO 4.77 NM AFTER RENEY LOM OR I-ABR 1.36 DME - COMPUTED USING CURRENT AIRNAV VALUES FOR RENEY LOM AND I-ABR DME.
11. AMENDED FINAL APPROACH COURSE FROM 308.08 TO 308.07 - MATCH CURRENT AIRNAV VALUE FOR I-ABR LOCALIZER COURSE.
12. AMENDED PROCEDURE TURN OUTBOUND COURSE FROM 128.08 TO 128.07 - RECIPROCAL OF UPDATED FINAL APPROACH COURSE.
13. AMENDED MISSED APPROACH HOLDING FROM 308 INBOUND TO 308.07 INBOUND - MATCH FINAL APPROACH COURSE.
14. DELETED CHART 1500 ELEVATOR 452757/982302 FROM ADDITIONAL FLIGHT DATA - NO LONGER REQUIRED.
15. 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.
16. ADDED CHART ABR R-031 AT OPLow AND ABR R-225 AT OPNAH IN ADDITIONAL FLIGHT DATA - IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-10R.
17. ADDED ALTERNATE MISSED APPROACH HOLDING DATA IN ADDITIONAL FLIGHT DATA - IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-6H(2).
18. ADDED VDP AT 2.27 DME, 0.92 NM TO THLD IN ADDITIONAL FLIGHT DATA - IN ACCORDANCE WITH FAAO 8260.3C, PARA 2-6-5.
19. AMENDED S-ILS 31 DA FROM 1500 TO 1501 - COMPUTED USING UPDATED TDZE.
20. AMENDED S-LOC 31 HAT FROM 360 TO 359 - COMPUTED USING UPDATED TDZE.
21. AMENDED S-LOC 31 CAT C VISIBILITY FROM 1/2 TO 5/8 - COMPUTED IN ACCORDANCE WITH FAAO 8260.3C, TABLE 3-3-1.
22. AMENDED CAT B CIRCLING MDA/HAA FROM 1760/459 TO 1860/558 - NEW CONTROLLING OBSTACLE IDENTIFIED IN LARGER CIRCLING AREA (MATCHES CAT B CIRCLING MINIMUMS ON THE RNAV (GPS) RWY 13).
23. AMENDED CAT C CIRCLING MDA/HAA FROM 1760/459 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).
24. AMENDED CAT D CIRCLING MDA/HAA FROM 1860/559 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).
25. ADDED NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 31 CATS C/D VISIBILITY TO 1 SM - IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-11O(3)(D).
26. ADDED PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON ABR VOR/DME AIRWAY RADIALS 094 CW 171 - IN ACCORDANCE WITH FAAO 8260.3C, PARA 2-3-1A(1), TURNS EXCEED 120 DEGREES.
27. DELETED PLANVIEW NOTE: ADF OR DME REQUIRED - REPLACED BY EQUIPMENT REQUIREMENT NOTE.
28. ADDED EQUIPMENT REQUIREMENT NOTE: ADF REQUIRED - IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-8, MISSED APPROACH REQUIRES ADF TO NAVIGATE.
29. AMENDED S-LOC 31 CAT D ALTERNATE MINIMUMS FROM STANDARD TO 900-2 3/4 - COMPUTED USING AMENDED CAT D CIRCLING MINIMUMS.
30. AMENDED MSA SECTOR 330 CW 150 MINIMUM ALTITUDE FROM 4100 TO 4000 - NEW OBSTACLE STUDY.
31. AMENDED GS ALT AT OM FROM 2911 TO 2908 - MATCH CURRENT AIRNAV VALUE.

12/12/18: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 11/28/18  
AMENDED ARC DIRECTION IN OPNAH TO JUSEN TERMINAL ROUTE FROM CW TO READ CCW

**COORDINATED WITH:**

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

**FLIGHT CHECKED BY**  
JOHN ROBERT CLOUGH

*Digitally signed by*  
**CASIMIR L TABAKA**  
Dec 14, 2018

**OFFICE**  
FIOG **DATE**  
11/15/2018

**DEVELOPED BY**  
PETER R. GUIMOND

*Digitally signed by*  
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Aug 15, 2018

**OFFICE**  
AJV-5422 **DATE**  
08/15/2018

**APPROVED BY**  
JULIE MORGAN

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MANAGER

