

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> RALEIGH-DURHAM INTL | <u>AIRPORT ID</u> KRDU | <u>PROCEDURE NAME</u> ILS OR LOC RWY 23R ILS RWY 23R (CAT II), ILS RWY 23R (CAT III) | <u>ORIGINAL/AMENDMENT</u> 12 | <u>CITY</u> RALEIGH/DURHAM | <u>STATE</u> NC |
| <u>AIRPORT ELEVATION</u> 435 | <u>TDZE</u> 409 | <u>SUPERSEDED</u> ILS OR LOC RWY 23R ILS RWY 23R (CAT II), ILS RWY 23R (CAT III) | <u>ORIGINAL/AMENDMENT</u> 11C | <u>DATED</u> 05/24/2018 | <u>MAG VAR</u> 9W |
| <u>FACILITY</u> I-DMP | <u>COORDINATES OF FACILITIES</u> | <u>ACTUAL EFFECTIVE DATE</u> 25 FEBRUARY 2021 | <u>REQUIRED EFFECTIVE DATE</u> ROUTINE | <u>CANCEL/SUSPEND</u> | <u>EPOCH YEAR</u> 2020 |

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> |
|--------------------|------------------------|----------------------|------------------------|------------------------|---------------------|-------------------|----------------------|------------------------|------------------------|
| BUTTS | IAF | WARMS | | TF | FB | 1.00 | 149.99 | 6.30 | 4000 |
| WARMS | | DABKE/12.92 DME | | TF | FB | 1.00 | 204.02 | 5.20 | 4000 |
| ESELL | IAF | MARBY/16.06 DME | | TF | FB | 1.00 | 250.49 | 7.95 | 5000 |
| MARBY/16.06 DME | IAF | DABKE/12.92 DME | | | | | 234.15 | 3.14 (I-DMP) | 4000 |
| DABKE/12.92 DME | | PRSTN/10.26 DME | | | | | 234.15 | 2.65 (I-DMP) | 3000 |
| PRSTN/10.26 DME | IF | BODLY/7.27 DME/RADAR | | | | | 234.15 | 3.00 (I-DMP) | 2200 |

MISSED APPROACH

MAP:

ILS: DA
 LOC: 5.45 NM AFTER BODLY/I-DMP 7.27 DME/RADAR OR AT I-DMP 1.82 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 2200 ON RDU VORTAC R-356 TO DUHAM INT/RDU 11.02 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 2200 ON HEADING 340 AND LIB VORTAC R-072 TO DUHAM INT AND HOLD.



PROFILE:

| | | | | | |
|---|----------------|---------------------------|---------------------------|------------------------|--------------|
| 1. PT | SIDE OF COURSE | OUTBOUND | FT WITHIN | MILES OF | (IAF) |
| 2. PROFILE STARTS AT MARBY | | | | | |
| 3. FAC: | 234.15 | FAF: BODLY/7.27 DME/RADAR | DIST FAF TO MAP: 5.45 | DIST FAF TO THLD: 5.45 | |
| 4. MIN ALT: MARBY/16.06 DME 5000, DABKE/12.92 DME 4000, PRSTN/10.26 DME 3000, BODLY/7.27 DME/RADAR 2200 | | | | | |
| 5. DIST TO THLD FROM OM: | MM: | IM: | 100 HAT: 841 | 150 HAT: | GS ANT: 1161 |
| 6. MIN GS INCPT: | 2200 | GS ALT AT FAF : | BODLY/7.27 DME/RADAR 2200 | OM: | MM: IM: |
| 7. GP ANGLE: | 3.00 | 34:1: | 20:1: | TCH: 55.0 | |
| 8. MSA FROM: RDU VORTAC 3400 | | | | | |

EQUIPMENT REQUIREMENTS NOTES:

RNAV 1-DME/DME/IRU OR GPS OR RADAR REQUIRED FOR PROCEDURE ENTRY.
RADAR OR DME REQUIRED FOR LOC ONLY.

NOTES:

CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 23R: CAT A, B, C, D RA 105, RVR 1200, HAT 100, DA 509 MSL.
CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 23R: CAT A, B, C, D RVR 600
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR INOPERATIVE ALS INCREASE S-LOC 23R CAT C/D VISIBILITY TO 1 5/8 SM.
CHART SPEED ICON IN PLANVIEW AT BUTTS: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT ESELL: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT MARBY: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

CHART IN PLANVIEW: ALTERNATE MA HOLDING
HOLD N DUHAM INT, RT, 171.80 INBOUND
CHART MANDATORY 6000 AT BUTTS.
CHART MANDATORY 6000 AT ESELL.
HOLD N, RT, 175.94 INBOUND.
FAS OBST: 730 AAO 355552N/0784306W.
CHART VDP AT 3.39 DME*
DISTANCE VDP TO THLD 1.57 NM.
*LOC ONLY.
CHART MANDATORY 4000 AT WARMS.
CHART CIRCLING ICON.



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

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD - CAT D 800-2 1/2

| 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-ILS 23R | 609 | 1800 | 200 | 609 | 1800 | 200 | 609 | 1800 | 200 | 609 | 1800 | 200 | | | |
| S-LOC 23R | 980 | 2400 | 571 | 980 | 2400 | 571 | 980 | 1 1/4 | 571 | 980 | 1 1/4 | 571 | | | |
| CIRCLING | 980 | 1 | 545 | 980 | 1 | 545 | 1020 | 1 5/8 | 585 | 1180 | 2 1/2 | 745 | | | |

CHANGES - REASONS

1. ADDED IAF TRANSITION FROM BUTTS (IAF) TO PRSTN (IF). - PER FPT CHECKLIST.
2. ADDED IAF TRANSITION FROM ESELL (IAF) TO PRSTN (IF). - PER FPT CHECKLIST.
3. DELETED EQUIPMENT REQUIREMENTS NOTE: RADAR REQUIRED FOR PROCEDURE ENTRY - ADDED RNAV 1-GPS OR RADAR REQUIRED FOR PROCEDURE ENTRY AND RADAR OR DME REQUIRED FOR LOC ONLY.
4. LOWERED CIRCLING CAT C MDA/HAA FROM 1040/605 TO 1020/585. - NEW OBSTACLE EVALUATION.
5. CHANGED PROFILE LINE 3: FAC FROM 234.16 TO 234.15, FAF FROM BODLY/7.18 DME/RADAR TO BODLY/7.27 DME/RADAR AND DIST FAF TO MAP/THLD FROM 5.37 TO 5.45 FAF - FIX BODLY MOVED 0.08 NM NE.
6. PROFILE LINE 4: REMOVED MIN ALT GIYEP/I-DMP 3.79 DME 1160* ADDED PRSTN/10.26 DME 3000 - NEW PROFILE START POINT.
7. ADDED CHART SPEED ICON IN PLANVIEW AT BUTTS: MAX 210 KIAS AND ESELL: MAX 210 KIAS TO ADDITIONAL FLIGHT DATA. - PER FPT CHECKLIST/DESIGN.
8. CHANGED CHART VDP AT FROM 3.14 DME TO VDP AT 3.39 DME AND VDP DISTANCE FROM 1.33 TO 1.57 - NEW EVALUATION COMPLETED.
9. CHANGED CHART FAS OBST: 583 TWR 355448N/0784548W TO FAS OBST: 730 AAO 355552N/0784306W - NEW OBST EVALUATION COMPLETED.
10. REMOVED GIYEP FIX MINIMUMS CHANGED S-LOC 23R MDA/HAT ALL CATS FROM 1160/751 TO 980/571; CAT B VISIBILITY FROM 4000 TO 2400, CAT C VISIBILITY FROM 1 3/4 TO 1 1/4, AND CAT D VISIBILITY FROM 2 TO 1 1/4 - PER FPT DESIGN REQUEST AND NEW VIS CHECK CALCULATION.
11. ADDED CHART NOTE: FOR INOPERATIVE ALS INCREASE S-LOC 23R CAT C/D VISIBILITY TO 1 5/8 SM - NEW VIS CHECK CALCULATION AND UPDATED INOP TABLE IAW 8261.3D.
12. PROFILE LINE 5: CHANGED DIST TO THLD FROM MM: 0.4 TO 2432 - IAW 8260.19H
13. CHANGED MAP LOC: "5.37 NM AFTER BODLY/I-DMP 7.18 DME/RADAR OR AT I-DMP 1.81 DME" TO "5.45 NM AFTER BODLY/I-DMP 7.27 DME/RADAR OR AT I-DMP 1.82 DME" - BOLDY MOVED 0.08 NM NE.
14. CHANGED TCH FROM 56 TO 55 - NEW DESIGN TCH

2/23/2020: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 1/03/2020.

1. MARBY WAYPOINT CHANGED TO A DME FIX:MARBY/16.06 DME.
2. DABKE WAYPOINT CHANGED TO A DME FIX:DABKE/12.82 DME.
3. PROFILE LINE 2 CHANGED FROM PROFILE STARTS AT PRSTN TO MARBY/16.06 DME
4. EQUIPMENT REQUIREMENTS NOTES CHANGED FROM RNAV 1-GPS OR RADAR REQUIRED FOR PROCEDURE ENTRY TO RNAV 1-DME/DME/IRU OR GPS OR RADAR REQUIRED FOR PROCEDURE ENTRY.
5. ADDED CHART MANDATORY 4000 AT WARMS

5/20/2020: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 1/03/2020.

1. ADDED IAF TO MARBY IN TERMINAL ROUTES.
2. ADDED CHART SPEED ICON IN PLANVIEW AT MARBY: MAX 210 KIAS.

6/22/2020: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 1/03/2020.

1. PROFILE LINE 5: DELETED DIST TO THLD FROM MM: 2432 AND IM: 860.
2. PROFILE LINE 6: DELETED MIN GS INCPT MM: 591 AND IM: 509.



AIRPORT

RALEIGH-DURHAM INTL

AIRPORT ID

KRDU

PROCEDURE NAME

ILS OR LOC RWY 23R
ILS RWY 23R (CAT II),
ILS RWY 23R (CAT III)

ORIGINAL/AMENDMENT

12

CITY

RALEIGH/DURHAM

STATE

NC

COORDINATED WITH:

A4A ☒

ALPA ☒

AOPA ☒

APA ☒

HAI ☐

NBAA ☒

OTHER: KRDU AIRPORT MANAGER, RDU ATCT, RDU APP CON, ZDC

FLIGHT CHECKED BY

GEORGE E SEARLES

Digitally signed by

DONALD H LANIER

Dec 21, 2020

OFFICE

FICO

DATE

12/9/2020

DEVELOPED BY

DONALD H. LANIER (DEXTER SWEETING)

Digitally signed by

DONALD H LANIER

Dec 21, 2020

OFFICE

AJV-A431

DATE

01/03/2020

APPROVED BY

GEORGE DAVIS

Digitally signed by

DONALD H LANIER

Dec 21, 2020

OFFICE

AJV-A430

DATE

TITLE

MANAGER

