

**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 5R ILS RWY 5R (SA CAT I), ILS RWY 5R (SA CAT II)	<u>ORIGINAL/AMENDMENT</u> 31	<u>CITY</u> RALEIGH/DURHAM	<u>STATE</u> NC
<u>AIRPORT ELEVATION</u> 435	<u>TDZE</u> 420	<u>SUPERSEDED</u> ILS OR LOC RWY 5R ILS RWY 5R (SA CAT I), ILS RWY 5R (SA CAT II)	<u>ORIGINAL/AMENDMENT</u> 30	<u>DATED</u> 11/08/2018	<u>MAG VAR</u> 9W
<u>FACILITY</u> I-RDU	<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>
OTTOS	IAF	BEICH/I-RDU 15.65 DME		TF	FB	1.00	073.27	6.40	5000
BEICH/15.65 DME	IAF	RATTY/I-RDU 12.51 DME					054.14	3.14 (I-RDU)	4000
RATTY/I-RDU 12.51 DME		PECIT/I-RDU 9.91 DME/RADAR					054.14	2.61 (I-RDU)	3000
PECIT/I-RDU 9.91 DME/RADAR	IF	PURME/I-RDU 6.87 DME/RADAR					054.14	3.03 (I-RDU)	2200

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.48 NM AFTER PURME/I-RDU 6.87 DME/RADAR OR AT I-RDU 1.39 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 2600 ON HEADING 130 AND ON RDU VORTAC R-092 TO ZEBUL INT/RDU 19.64 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 2600 ON HEADING 095 AND ON TYI VORTAC R-269 TO ZEBUL INT/TYI 33.34 DME AND HOLD.



PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. PROFILE STARTS AT BEICH					
3. FAC:	054.14	FAF: PURME/I-RDU 6.87 DME/RADAR	DIST FAF TO MAP: 5.48		DIST FAF TO THLD: 5.48
4. MIN ALT:	BEICH/I-RDU 15.65 DME 5000, RATTY/I-RDU 12.51 DME 4000, PECIT/I-RDU 9.91 DME/RADAR 3000, PURME/I-RDU 6.87 DME/RADAR 2200, AMORT/I-RDU 2.79 DME 900*				
5. DIST TO THLD FROM OM:	MM:	IM:	100 HAT: 1263	150 HAT: 2217	GS ANT: 1025
6. MIN GS INCPT:	2200	GS ALT AT FAF :	PURME/I-RDU 6.87 DME/RADAR 2200	OM:	MM:IM:
7. GP ANGLE:	3.00	34:1:	20:1:	TCH: 56.3	
8. MSA FROM:	RDU VORTAC 3400				

EQUIPMENT REQUIREMENTS NOTES:

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

NOTES:

SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 5R: CAT A, B, C, D RA 230, RVR 1400, HAT 150, DA 570 MSL.
SA CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 5R: CAT A, B, C, D RA 183, RVR 1200, HAT 100, DA 520 MSL.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH.
SA CAT II CHART NOTE: REDUCED LIGHTING: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
*LOC ONLY
CHART PROFILE NOTE: USE I-RDU DME WHEN ON THE LOCALIZER COURSE.
CHART SPEED ICON IN PLANVIEW AT OTTOS: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT BEICH: MAX 210 KIAS.
CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.

ADDITIONAL FLIGHT DATA:

CHART MANDATORY 6000 AT OTTOS.
HOLD E, RT, 271.91 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD W ZEBUL INT/TYI 33.34 DME, RT, 088.55 INBOUND.
CHART FAS OBST: 451 TREE 355136N/0784757W.
CHART 579 TOWER 354803N/0785221W.
CHART IN PLANVIEW: ZEBUL INT/TYI 33.34 DME.
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 05R**	620	2400	200	620	2400	200	620	2400	200	620	2400	200			
S-LOC 05R	760	2400	340	760	2400	340	760	2600	340	760	2600	340			
CIRCLING	960	1	525	960	1	525	1020	1 1/2	585	1180	2 1/2	745			

CHANGES - REASONS

1. ADDED TRANSITION FROM OTTOS (IAF) TO PECIT (IF). - PER FPT CHECKLIST/DESIGN.
2. LOWERED CIRCLING CAT C MDA/HAA FROM 1040/605 TO 1020/585. - NEW OBSTACLE EVALUATION.
3. CHANGED PECIT (IF) TO PURME DISTANCE FROM 5.97 NM TO 3.04 NM. - PECIT MOVED 3.56 NM NE/PURME MOVED 0.63 NM NE.
4. CHANGED FAF TO THLD DISTANCE FROM 6.11 NM TO 5.48 NM. - FAF (PURME) MOVED 0.63 NM NE.
5. LOWERED FAF ALTITUDE FROM 2400 TO 2200. - PER FPT CHECKLIST/DESIGN.
6. LOWERED MIN ALTITUDE AT PECIT FROM 4000 TO 3000. - PER FPT CHECKLIST/DESIGN.
7. ADDED NOTE: CHART SPEED ICON IN PLANVIEW AT OTTOS: MAX 210 KIAS. - TRANSITION FROM STANDARD TERMINAL ARRIVAL ROUTE.
8. CHANGED EQUIPMENT REQUIREMENT NOTES FROM: "RADAR REQUIRED FOR PROCEDURE ENTRY" TO: RNAV 1-DME/DME/IRU OR GPS OR RADAR REQUIRED FOR PROCEDURE ENTRY. - ADDED RNAV TRANSITION FROM ENROUTE STRUCTURE.
9. ADDED NOTE: CHART MANDATORY 6000 AT OTTOS. - TRANSITION FROM STANDARD TERMINAL ARRIVAL ROUTE.
10. REMOVED IAF FROM FIX TYPE AT PECIT. - SEGMENT LENGTH DOES NOT MEET CRITERIA AS AN IAF.

- 2/23/2020: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 1/2/2020.
1. BEICH CHANGED FROM A WAYPOINT TO A DME FIX BEICH/I-RDU 15.65 DME.
2. RATTY CHANGED FROM A WAYPOINT TO A DME FIX RATTY/I-RDU 12.51 DME.
3. 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.
4. PROFILE LINE 2 CHANGED FROM PROFILE STARTS AT PECIT TO BEICH.

- 5/8/2020: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 1/2/2020.
1. ADDED NOTE: "CHART SPEED ICON IN PLANVIEW AT BEICH: MAX 210 KIAS".
2. CHANGED MISSED APPROACH MAP FROM "LOC: I-RDU 1.39 DME" TO LOC: 5.48 NM AFTER PURME/I-RDU 6.87 DME/RADAR OR AT I-RDU 1.39 DME.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZDC, AMGR, RDU ATC.

FLIGHT CHECKED BY
THOMAS ROBERT CONKLIN

Digitally signed by
WARDELL HENNING
Nov 09, 2020

OFFICE
FIOG

DATE
03/04/2020

DEVELOPED BY
WARDELL HENNING (THOR CORNELL)

Digitally signed by
WARDELL HENNING
Nov 09, 2020

OFFICE
AJV-A432

DATE
01/02/2020

APPROVED BY
LONNIE EVERHART

Digitally signed by
WARDELL HENNING
Nov 09, 2020

OFFICE
AJV-A430

DATE

TITLE
MANAGER

