

FEDERAL AVIATION ADMINISTRATION  
 FLIGHT STANDARDS SERVICE  
 STANDARD TERMINAL ARRIVAL (STAR)

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.  
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Arrival Name <b>JOOLS (RNAV)</b>	Number <b>ONE</b>	STAR Computer Code <b>JOOLS.JOOLS1</b>	Superseded Number <b>NONE</b>	Dated	Effective Date <b>06/15/2023</b>
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TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
THRSR	THRSR.JOOLS1	THRSR	THRSR						
			PENFI	089.93	59.66	11000	3200		
			HRTWL	067.75	62.55	11000	2300		
			ZELLE	066.62	12.77	11000	2100		
WANSA	WANSA.JOOLS1	WANSA	JOOLS	066.74	17.92	11000	2100		
			JEENI	007.59	07.91	11000	2300		
			HRTWL	007.72	24.69	11000	2300		
			ZELLE	066.62	12.77	11000	2100		
JOOLS			JOOLS	066.74	17.92	11000	2100		

**ARRIVAL ROUTE DESCRIPTION:**

KCLT: FROM JOOLS ON TRACK 066.92/10.00 TO CHPTR.

LANDING RWY 18L/C/R: FROM CHPTR ON TRACK 041.12/17.08 TO CROSS WHDRW AT OR ABOVE 4000, THEN ON TRACK 050.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 36L/C/R: FROM CHPTR ON TRACK 067.02/4.00 TO CROSS KEGGG AT OR ABOVE 4000, THEN ON TRACK 070.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KAKH/KRUQ/KEHO/KJQF/KIPJ: FROM JOOLS ON TRACK 066.92/10.00 TO CHPTR, THEN ON TRACK 041.12/17.08 TO CROSS WHDRW AT OR ABOVE 4000, THEN ON TRACK 050.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KDCM/KEQY/KUZA/KAFP/N52/KVUJ/KLKR: FROM JOOLS ON TRACK 066.92/10.00 TO CHPTR, THEN ON TRACK 067.02/4.00 TO CROSS KEGGG AT OR ABOVE 4000, THEN ON TRACK 070.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

**PBN REQUIREMENT NOTES:**

RNAV 1 - DME/DME/IRU OR GPS

**EQUIPMENT REQUIREMENT NOTES:**

RADAR REQUIRED

**PROCEDURAL DATA NOTES:**

**FIXES AND/OR HOLDING PATTERNS:**

CHART HOLDING AT JOOLS: HOLD SW, LT, 066.92 INBOUND, 10 NM LEGS.

CHART HOLDING AT HRTWL: HOLD SW, RT, 066.62 INBOUND, 10 NM LEGS.

**COMMUNICATIONS:**

CHART: CHARLOTTE APP CONTROL



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<b>JOOLS (RNAV)</b>	<b>ONE</b>	<b>JOOLS.JOOLS1</b>	<b>NONE</b>		06/15/2023

**AIRPORTS SERVED:**

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KCLT	CHARLOTTE	NC
KAFP	WADESBORO	NC
KEQY	MONROE	NC
KDCM	CHESTER	SC
KJQF	CONCORD	NC
KAKH	GASTONIA	NC
N52	WAXHAW	NC
KLKR	LANCASTER	SC
KIPJ	LINCOLNTON	NC
KRUQ	SALISBURY	NC
KUZA	ROCK HILL	SC
KEHO	SHELBY	NC
KVUJ	ALBEMARLE	NC

**LOST COMMUNICATIONS PREFERENCES:**

**REMARKS:**

**ADDITIONAL FLIGHT DATA:**

DME/DME ASSESSMENT: SAT (RNP 2.0)

MAG VAR: KCLT 07W/2000

CHART AT WHDRW TERMINUS: KCLT LDG RWY 18L/C/R, KAKH, KEHO, KIPJ, KJQF, KRUQ.

CHART AT KEGGG TERMINUS: KCLT LDG RWY 36L/C/R, KAFP, KDCM, KEQY, KLKR, N52, KUZA, KVUJ.

CHART NOTE: USE CAUTION: PARACHUTE JUMPING 17NM NE OF CHPTR, 3.0 NM RADIUS KDCM (CHESTER-CATAWABA RGNL),

AOB 14,500 MSL.

*Digitally signed by*

**FLIGHT INSPECTED BY:**

**CASIMIR L TABAKA**

**ORGANIZATION:**

**DATE:**

JON D HOLLAND

Apr 27, 2023

FPO

04/25/2023

Flight Inspected Signature: \_\_\_\_\_

**DEVELOPED BY:**

*Digitally signed by*

CASIMIR TABAKA (SILVIA YOUNG)

**CASIMIR L TABAKA**

AJV-A432

09/27/2022

Developed By Signature: \_\_\_\_\_

Nov 10, 2022

**APPROVED BY:**

JOHNNIE BAKER

*Digitally signed by*  
**CASIMIR L TABAKA**

AJV-A430

Approved By Signature: \_\_\_\_\_

Nov 10, 2022



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JOOLS (RNAV)	ONE	JOOLS.JOOLS1	NONE		06/15/2023

CHANGES:

REASONS:

1/20/2023: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 9/27/2022  
ADDED TO ADDITIONAL FLIGHT DATA: CHART NOTE: USE CAUTION: PARACHUTE JUMPING 17NM NE OF CHPTR, 3.0 NM RADIUS  
KDCM (CHESTER-CATAWABA RGNL), AOB 14,500 MSL.

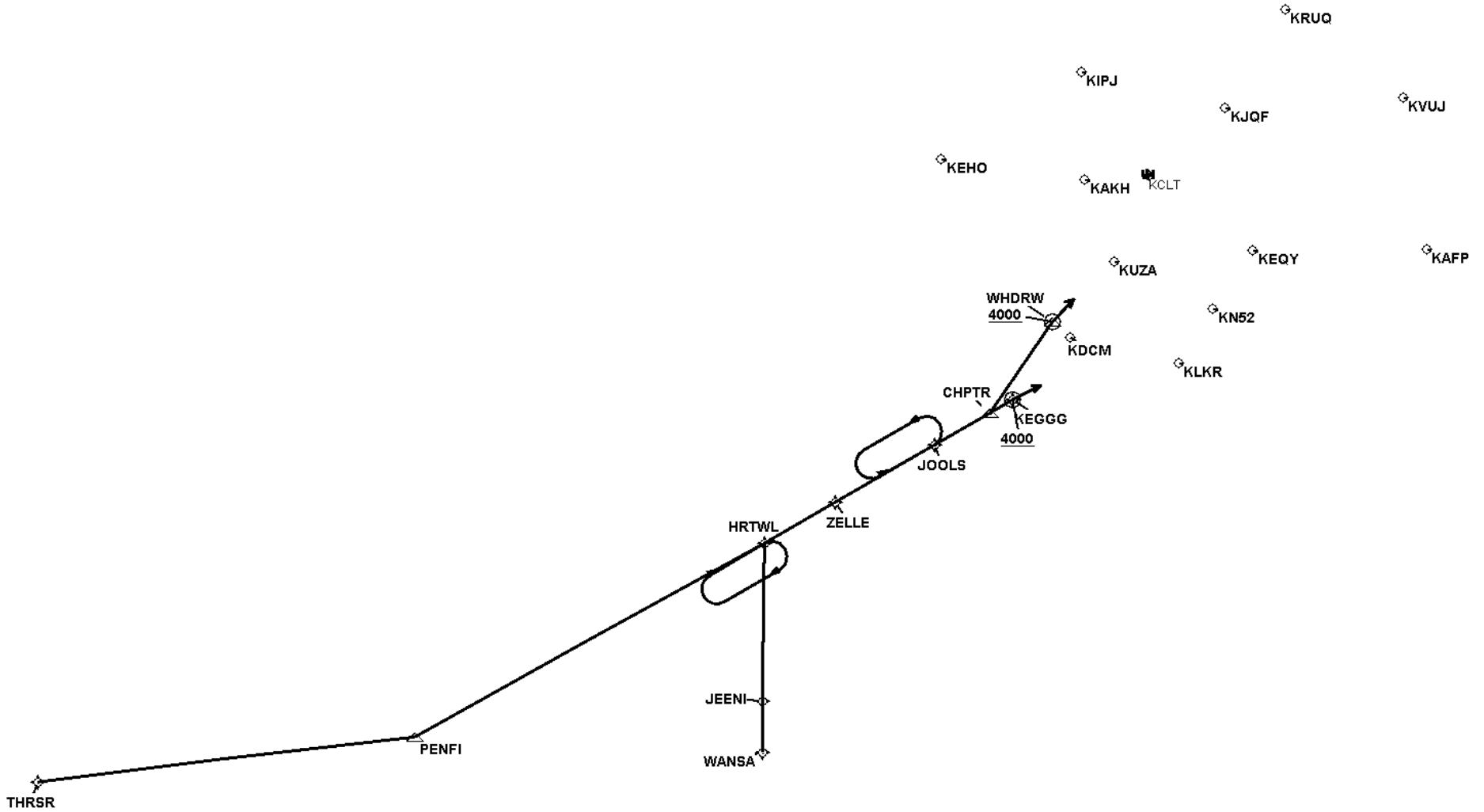


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Graphic Depiction 1

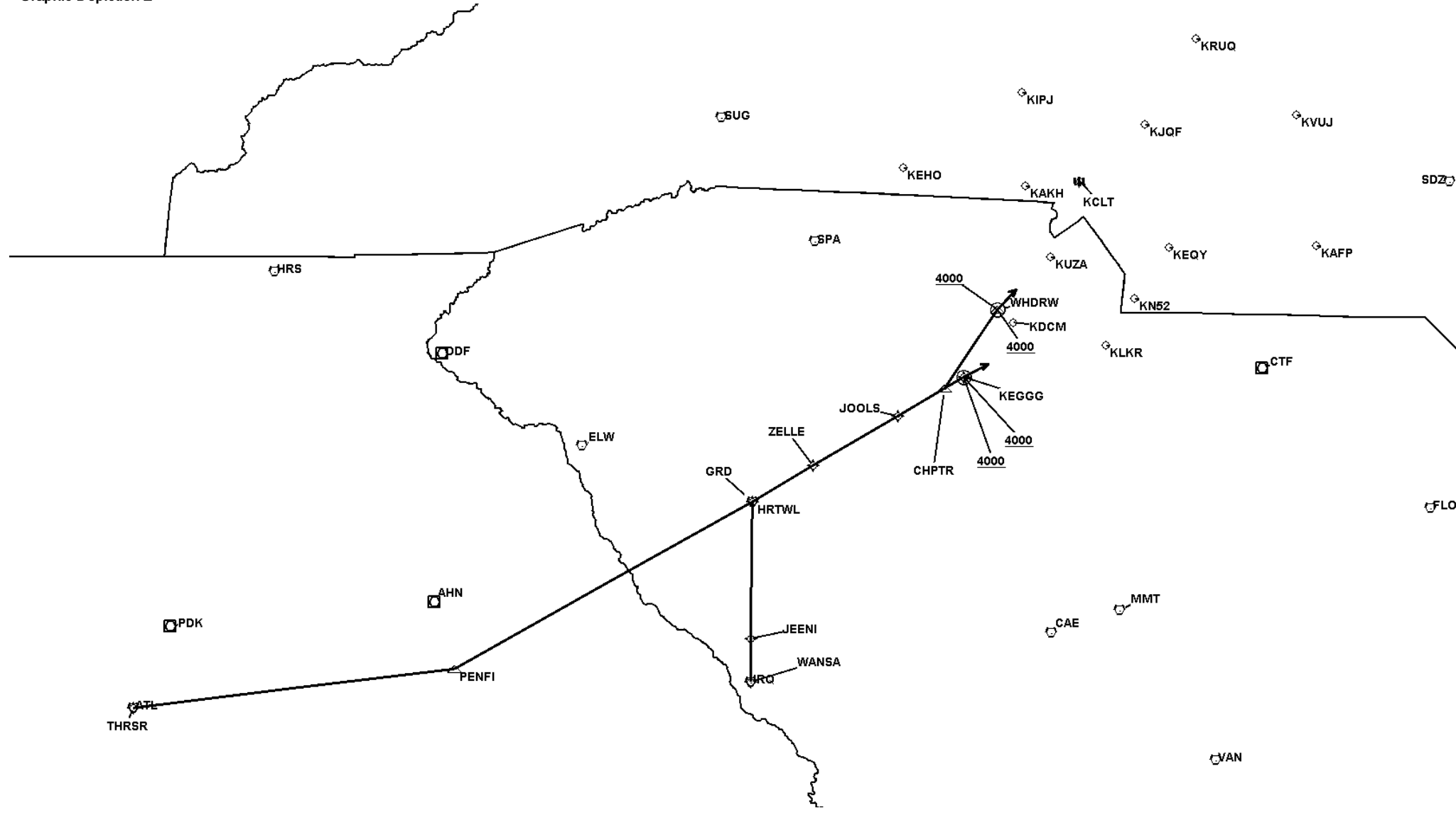


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Graphic Depiction 2



FEDERAL AVIATION ADMINISTRATION  
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 STAR (DATA RECORD)

Arrival Name JOOLS (RNAV)	Number ONE	STAR Computer Code JOOLS.JOOLS1		Superseded Number NONE		Dated	Effective Date 06/15/2023		
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
En Route Transition									
THRSR	333745.26N / 0842606.36W	Y		IF					THRSR.JOOLS1
PENFI	334445.98N / 0831506.14W	Y	FB	TF	082.93	59.66			
HRTWL	341505.33N / 0820915.55W	Y	FB	TF	060.75	62.55			
ZELLE	342132.78N / 0815557.14W	Y	FB	TF	059.62	12.77			
JOOLS	343034.01N / 0813713.32W	Y	FB	TF	059.74	17.92			
En Route Transition									
WANSA	334226.10N / 0820943.99W	Y		IF					WANSA.JOOLS1
JEENI	335021.72N / 0820938.11W	Y	FB	TF	000.59	07.91			
HRTWL	341505.33N / 0820915.55W	Y	FB	TF	000.72	24.69			
ZELLE	342132.78N / 0815557.14W	Y	FB	TF	059.62	12.77			
JOOLS	343034.01N / 0813713.32W	Y	FB	TF	059.74	17.92			
Common Route									
JOOLS	343034.01N / 0813713.32W	Y		IF					JOOLS.JOOLS1
CHPTR	343534.78N / 0812644.42W	Y	FB	TF	059.92	10.00			
Common Route									
JOOLS	343034.01N / 0813713.32W	Y		IF					JOOLS.JOOLS1
CHPTR	343534.78N / 0812644.42W	Y	FB	TF	059.92	10.00			
KEGGG	343734.84N / 0812232.51W	Y	FO	TF	060.02	04.00	AT/ABOVE 4000		
KAFP,KDCM,KEQY, KLKR,N52,KUZA, KVUJ				FM	063.00				
Common Route									
JOOLS	343034.01N / 0813713.32W	Y		IF					JOOLS.JOOLS1
CHPTR	343534.78N / 0812644.42W	Y	FB	TF	059.92	10.00			



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Arrival Name JOOLS (RNAV)	Number ONE	STAR Computer Code JOOLS.JOOLS1		Superseded Number NONE		Dated	Effective Date 06/15/2023		
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
WHDRW	344943.82N / 0811506.33W	Y	FO	TF	034.12	17.08	AT/ABOVE 4000		
KAKH,KEHO,KIPJ, KJQF,KRUQ				FM	043.00				
Runway Transition									
CHPTR	343534.78N / 0812644.42W	Y		IF					
WHDRW	344943.82N / 0811506.33W	Y	FO	TF	034.12	17.08	AT/ABOVE 4000		
KCLT:RWY 18C,RWY 18L,RWY 18R				FM	043.00				
Runway Transition									
CHPTR	343534.78N / 0812644.42W	Y		IF					
KEGGG	343734.84N / 0812232.51W	Y	FO	TF	060.02	04.00	AT/ABOVE 4000		
KCLT:RWY 36C,RWY 36L,RWY 36R				FM	063.00				

